

FIG. 1A (Prior Art)

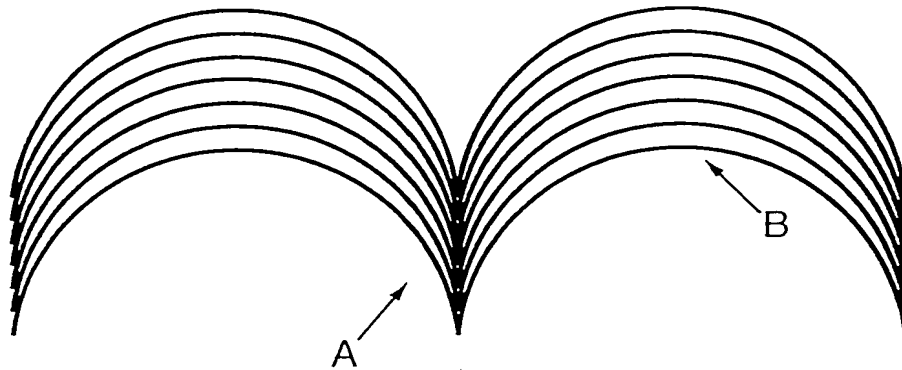


FIG. 1B (Prior Art)

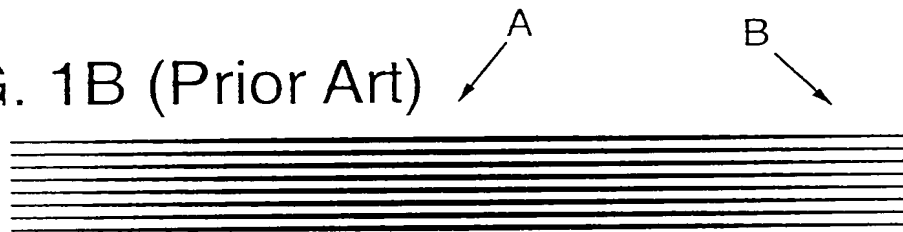


FIG. 2

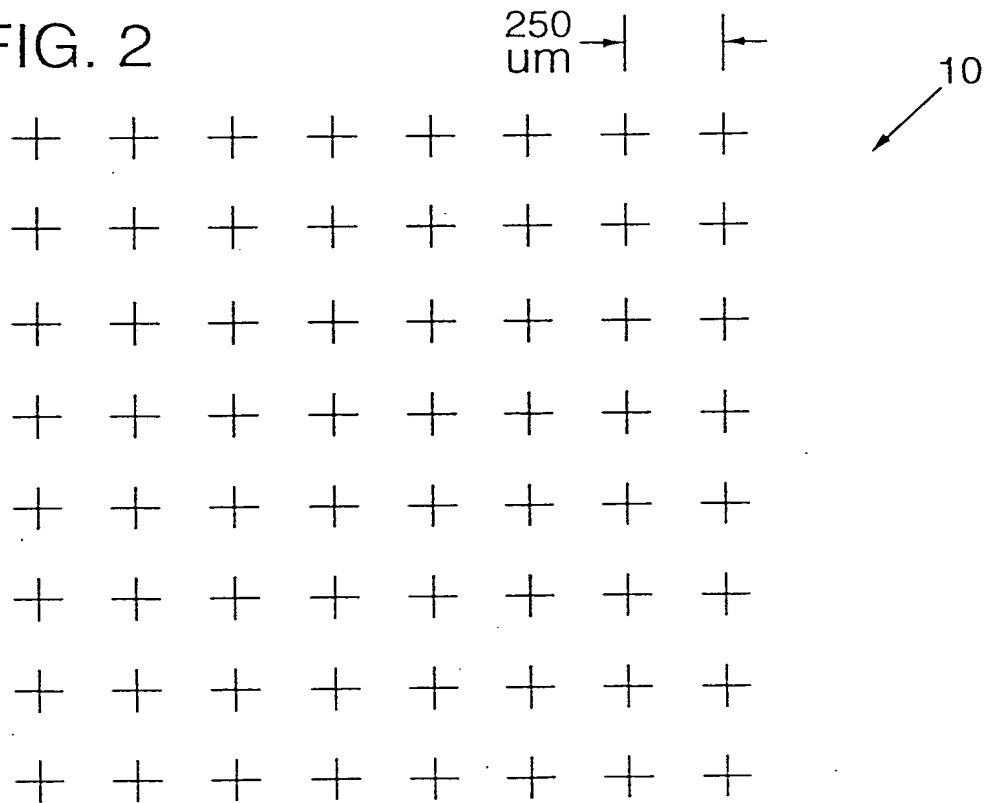


FIG. 3

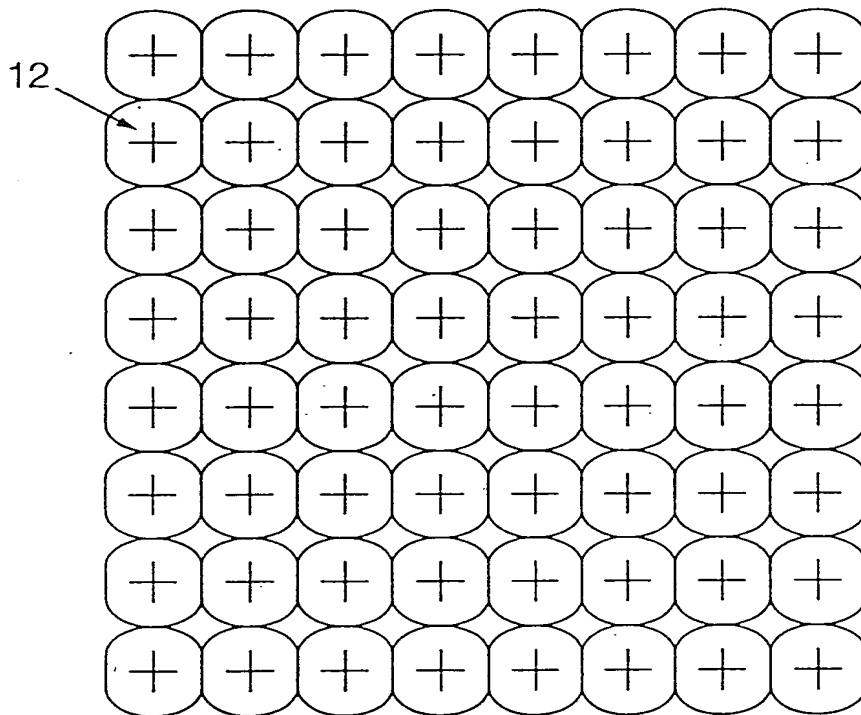


FIG. 4

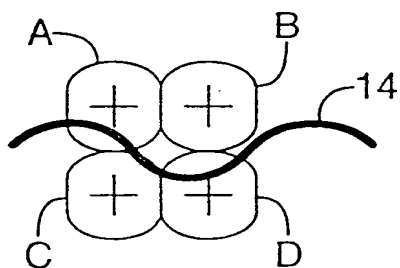


FIG. 5

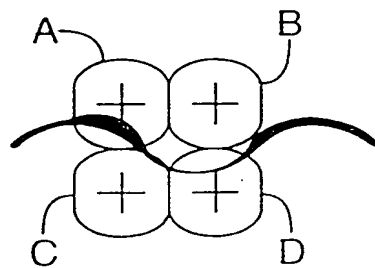


FIG. 6

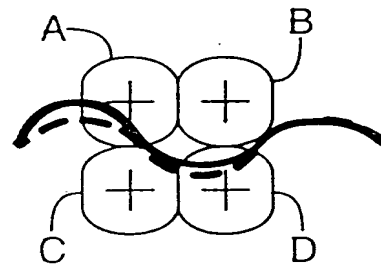


FIG. 7A

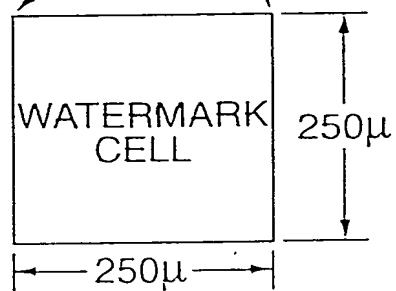
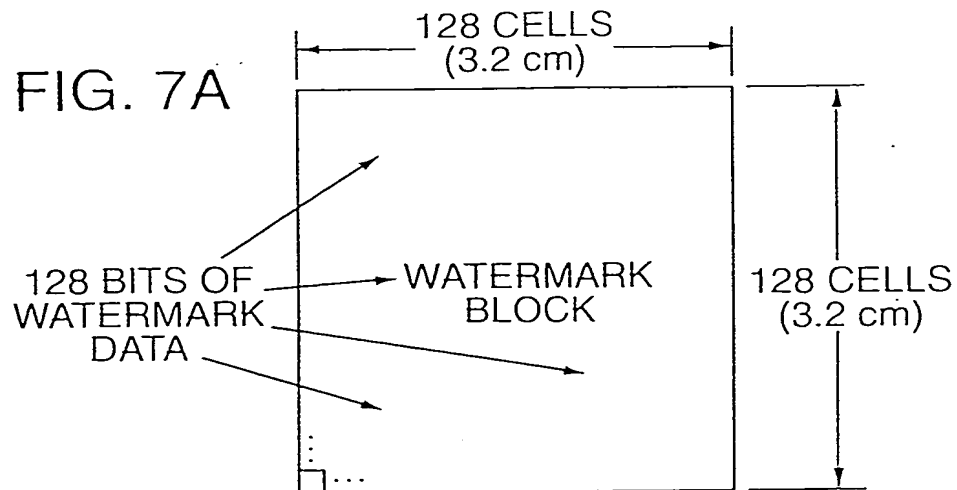


FIG. 7B

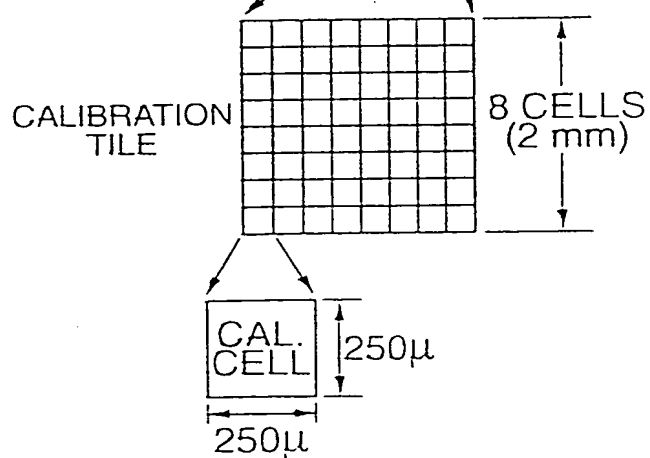
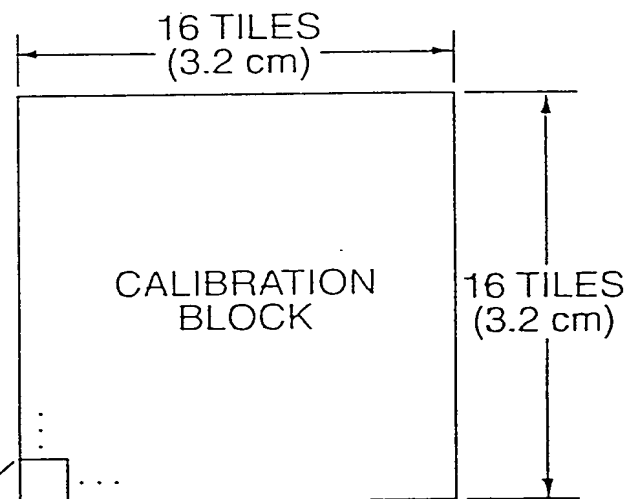


FIG. 8

204	211	212	214	213	207	215	214
204	215	202	205	209	205	213	202
212	207	203	214	203	206	202	215
209	201	211	201	212	204	200	203
208	204	212	206	207	203	205	202
209	214	207	207	211	201	206	213
208	212	206	211	213	208	206	213
209	208	202	202	205	205	205	211

REFERENCE GREY-SCALE CALIBRATION TILE

FIG. 12

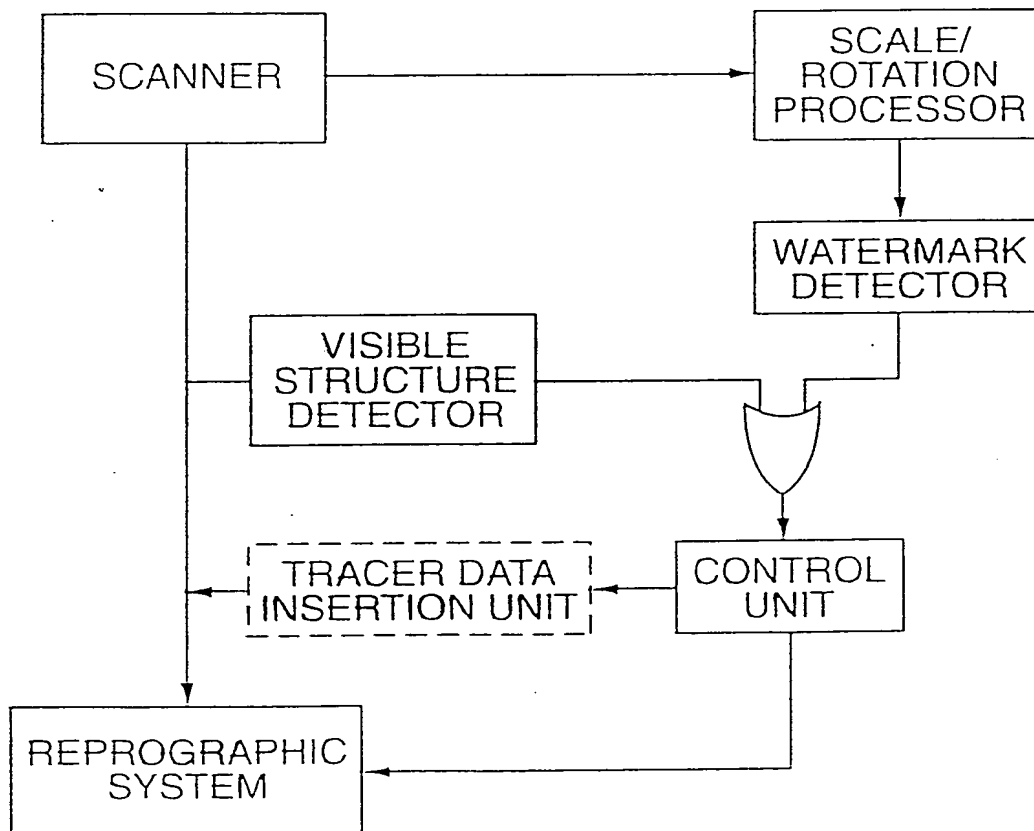


FIG. 9A

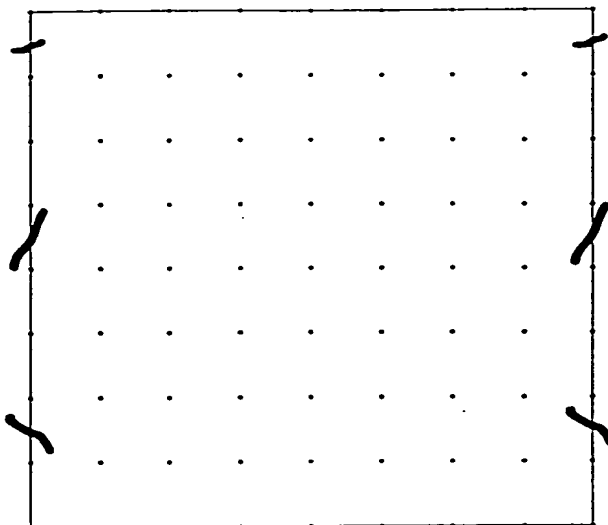


FIG. 9B

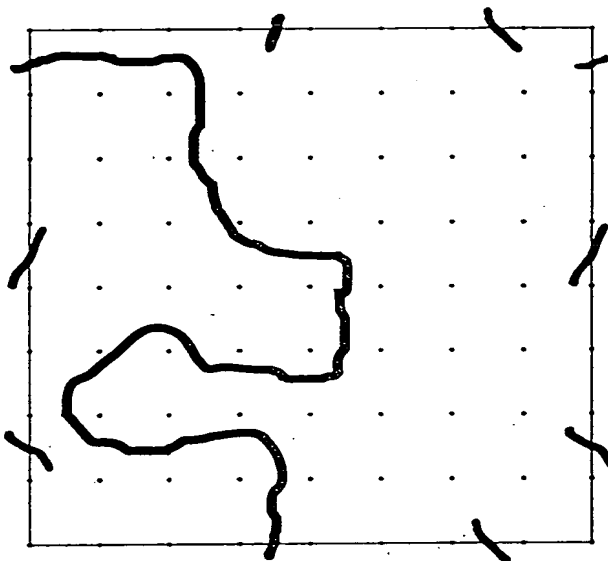
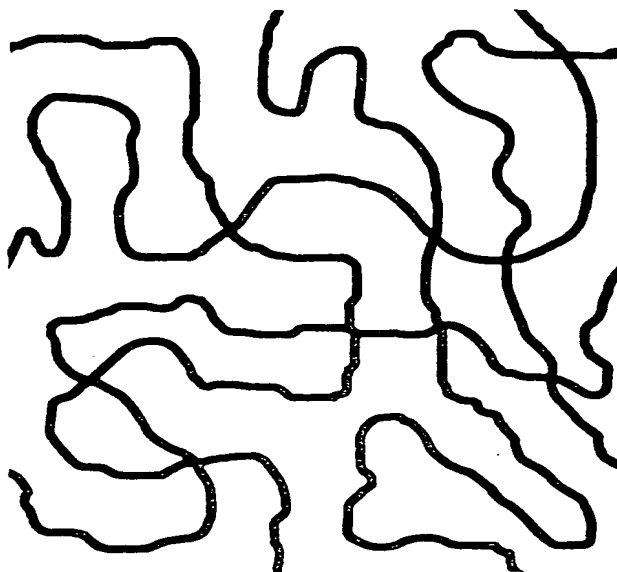
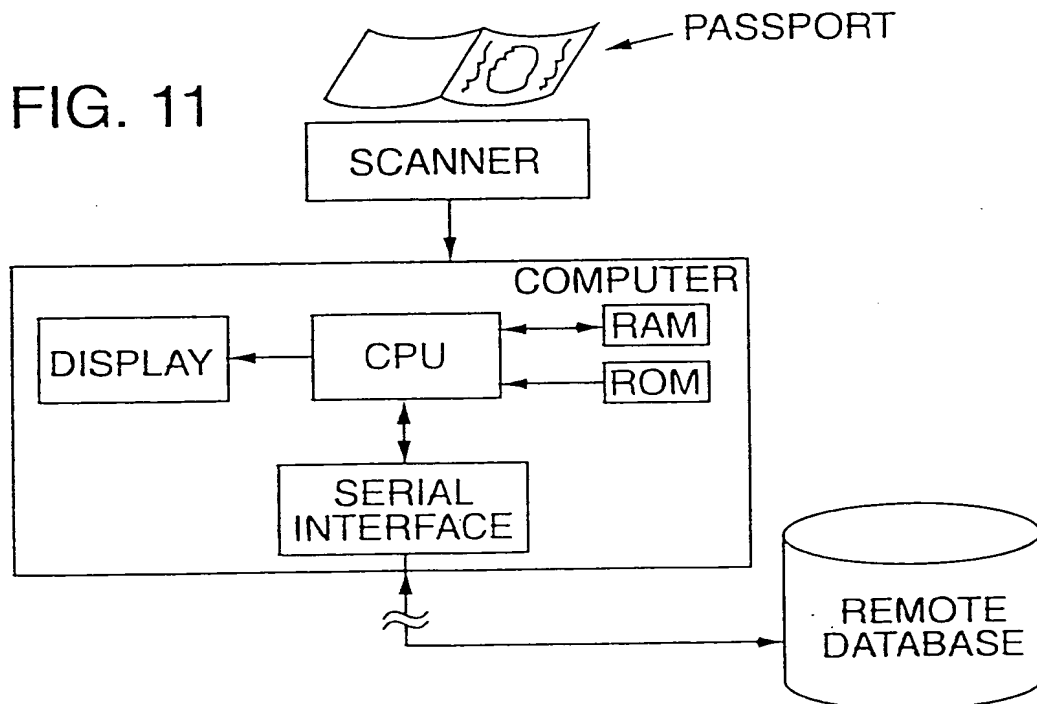
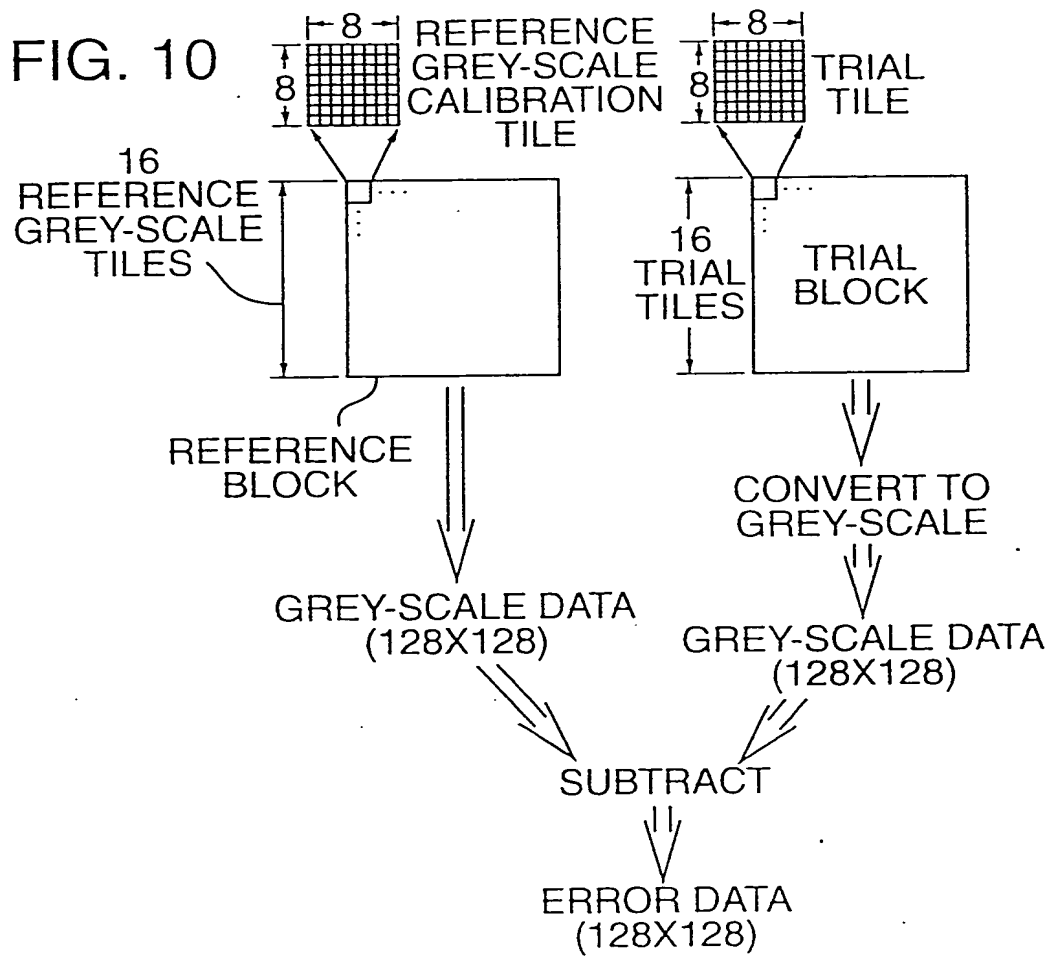


FIG. 9C



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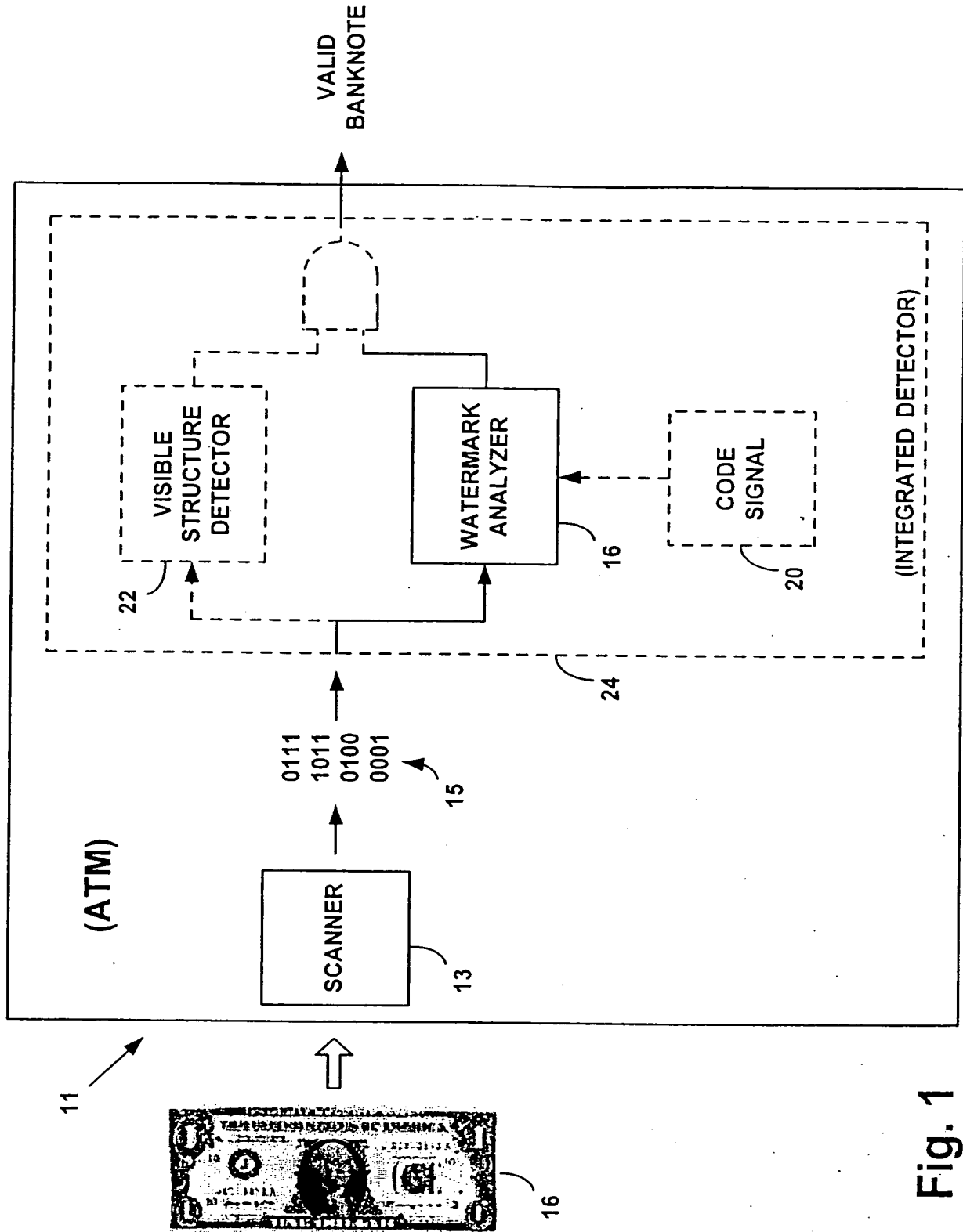


Fig. 1

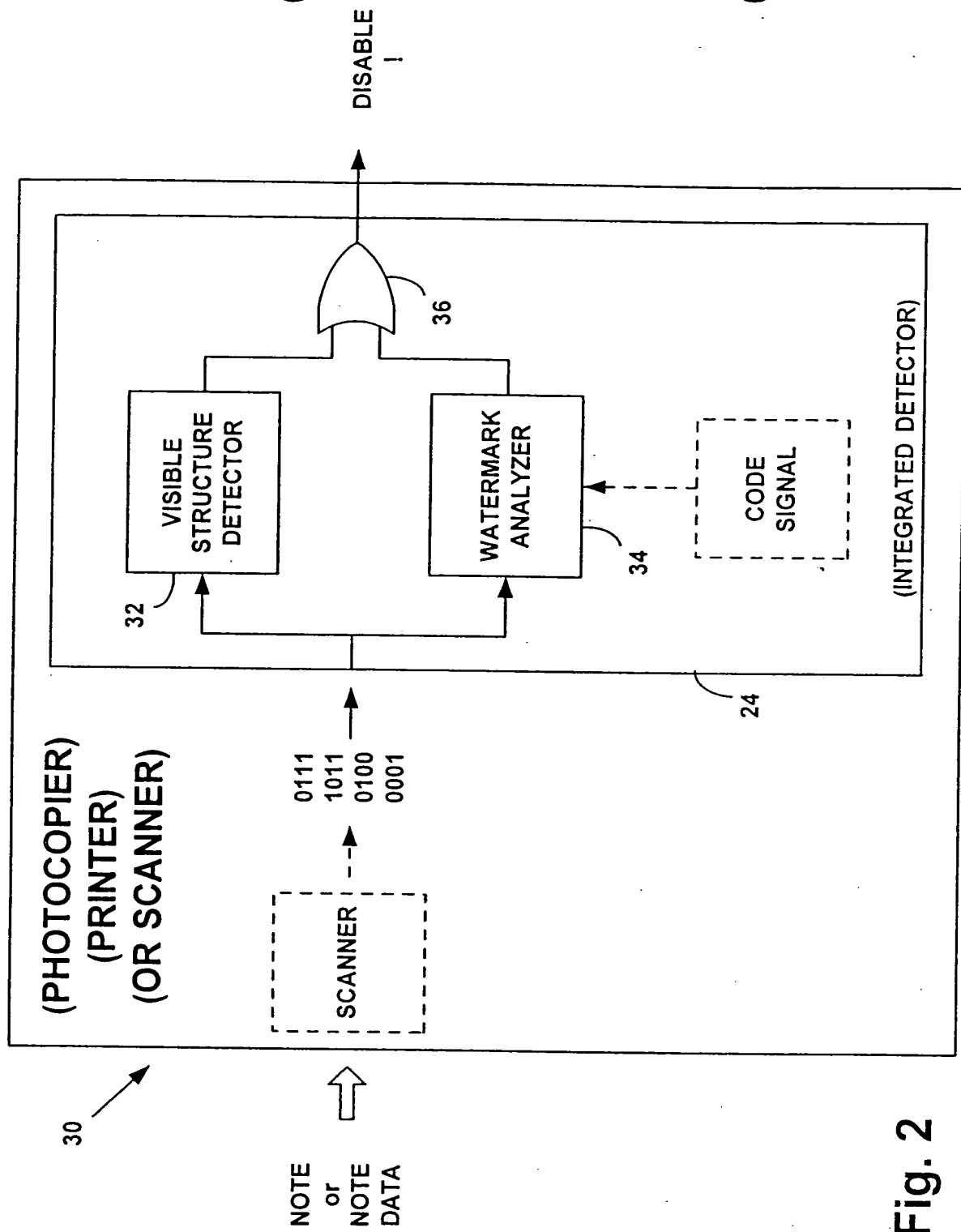


Fig. 2

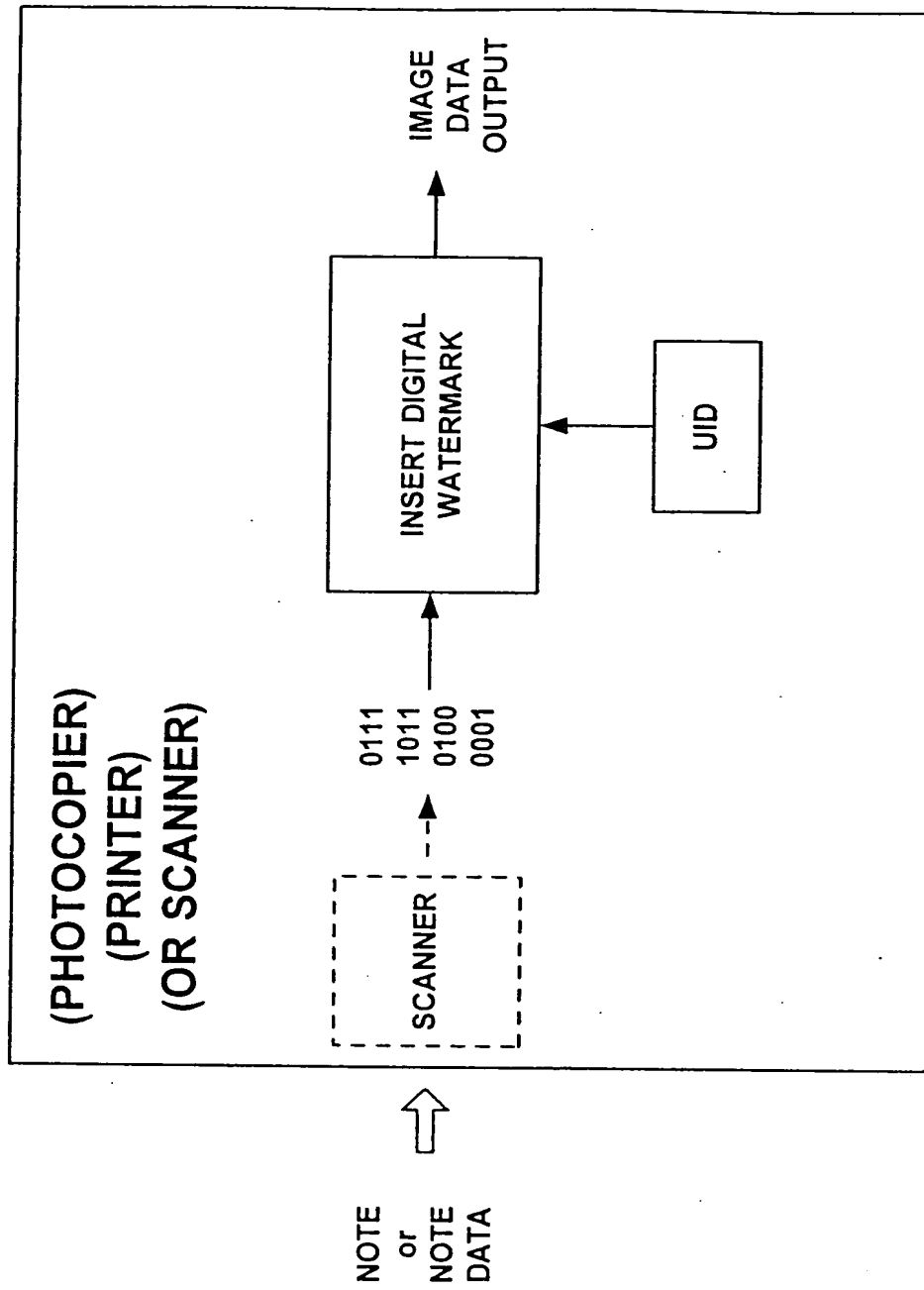


Fig. 3

FIG. 1

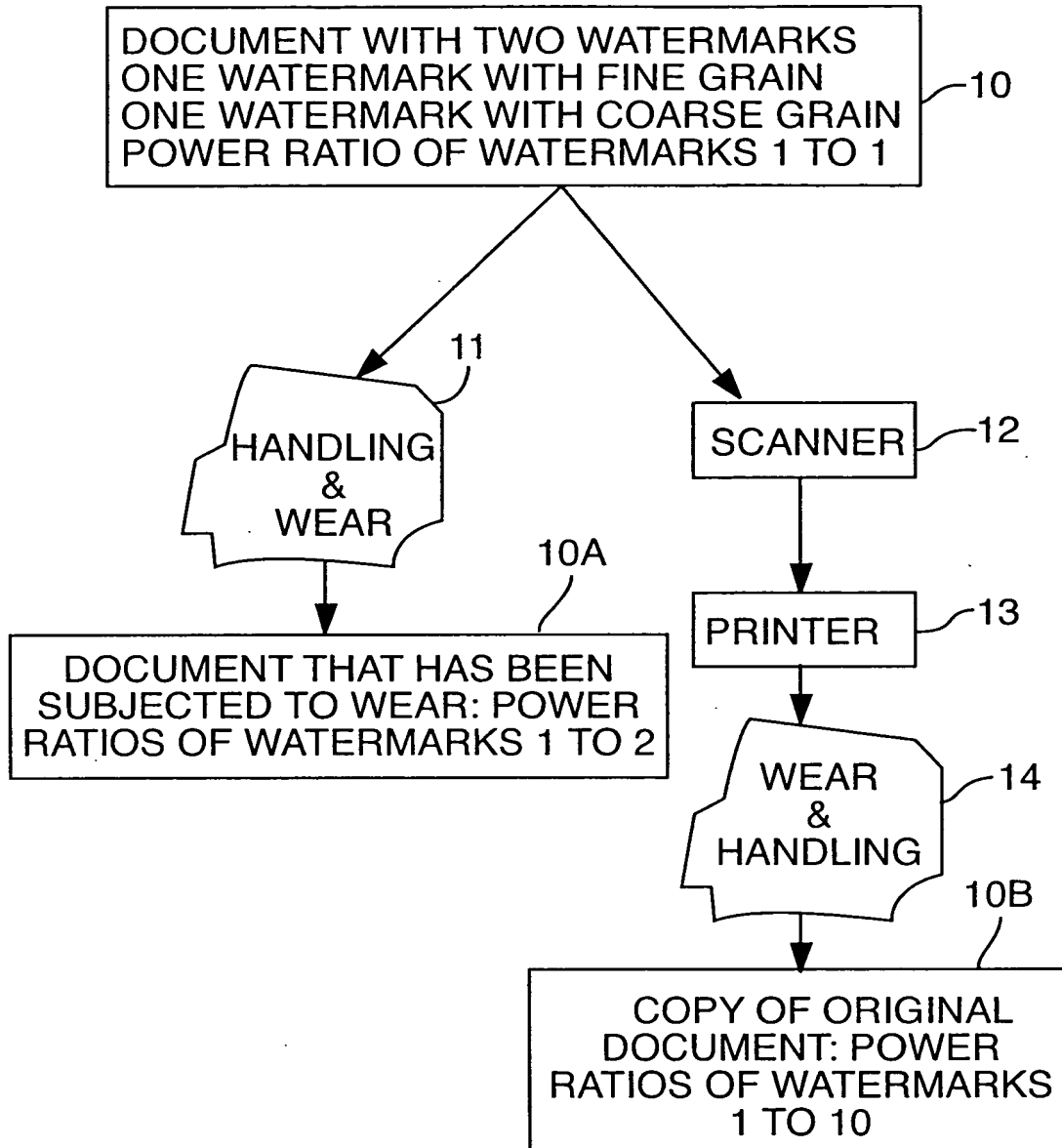


FIG. 1

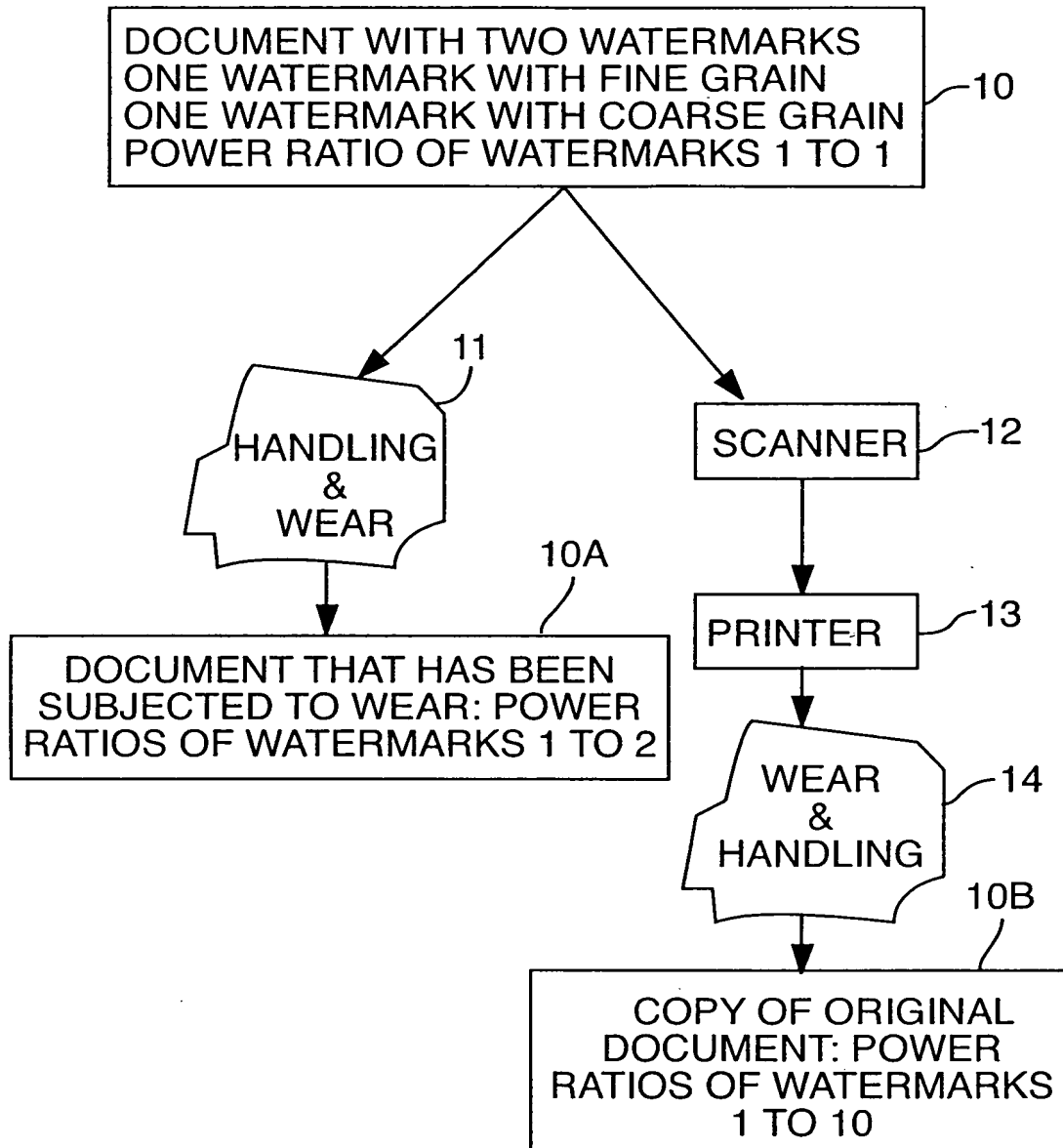


FIG. 1

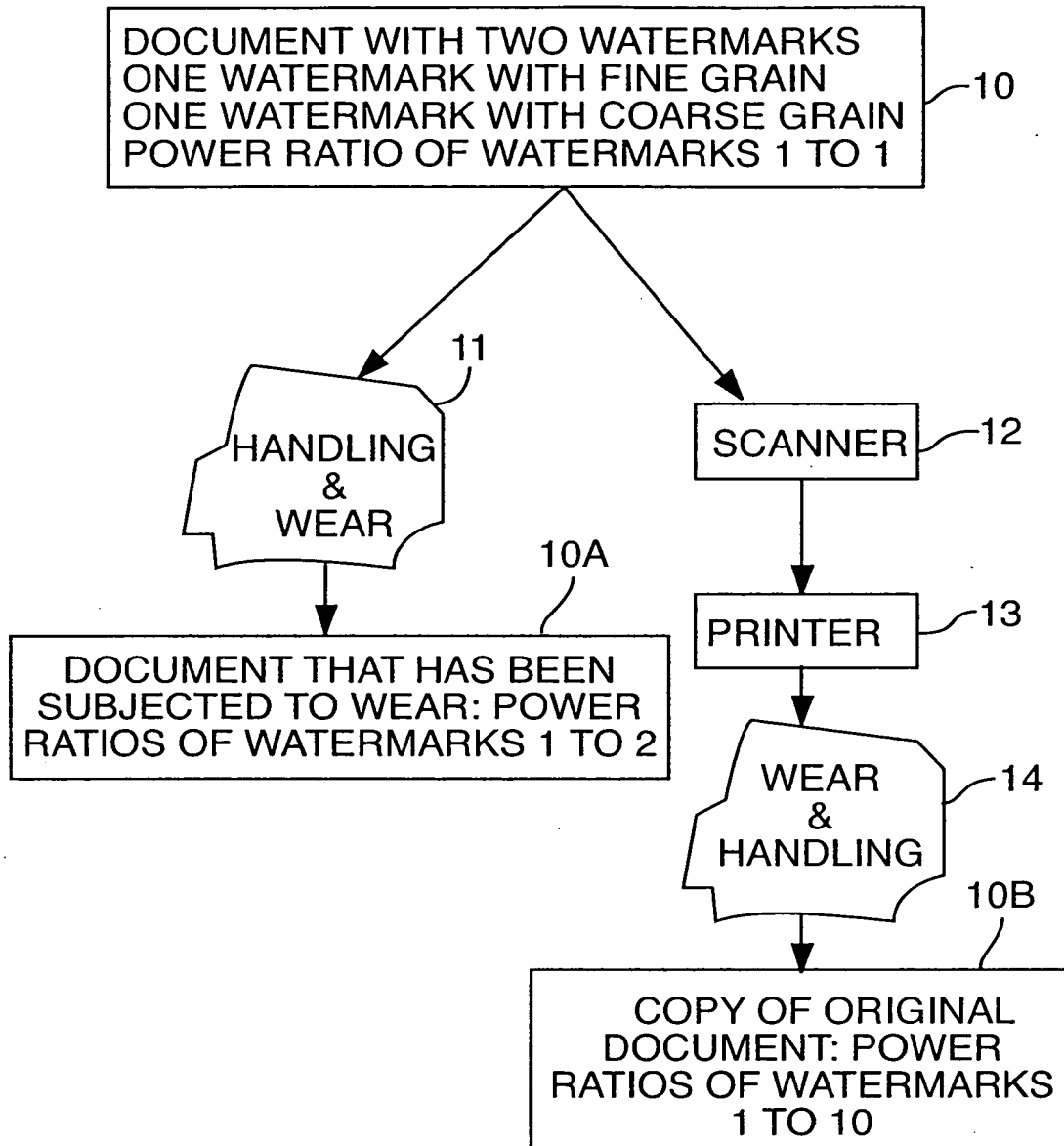


FIG. 1

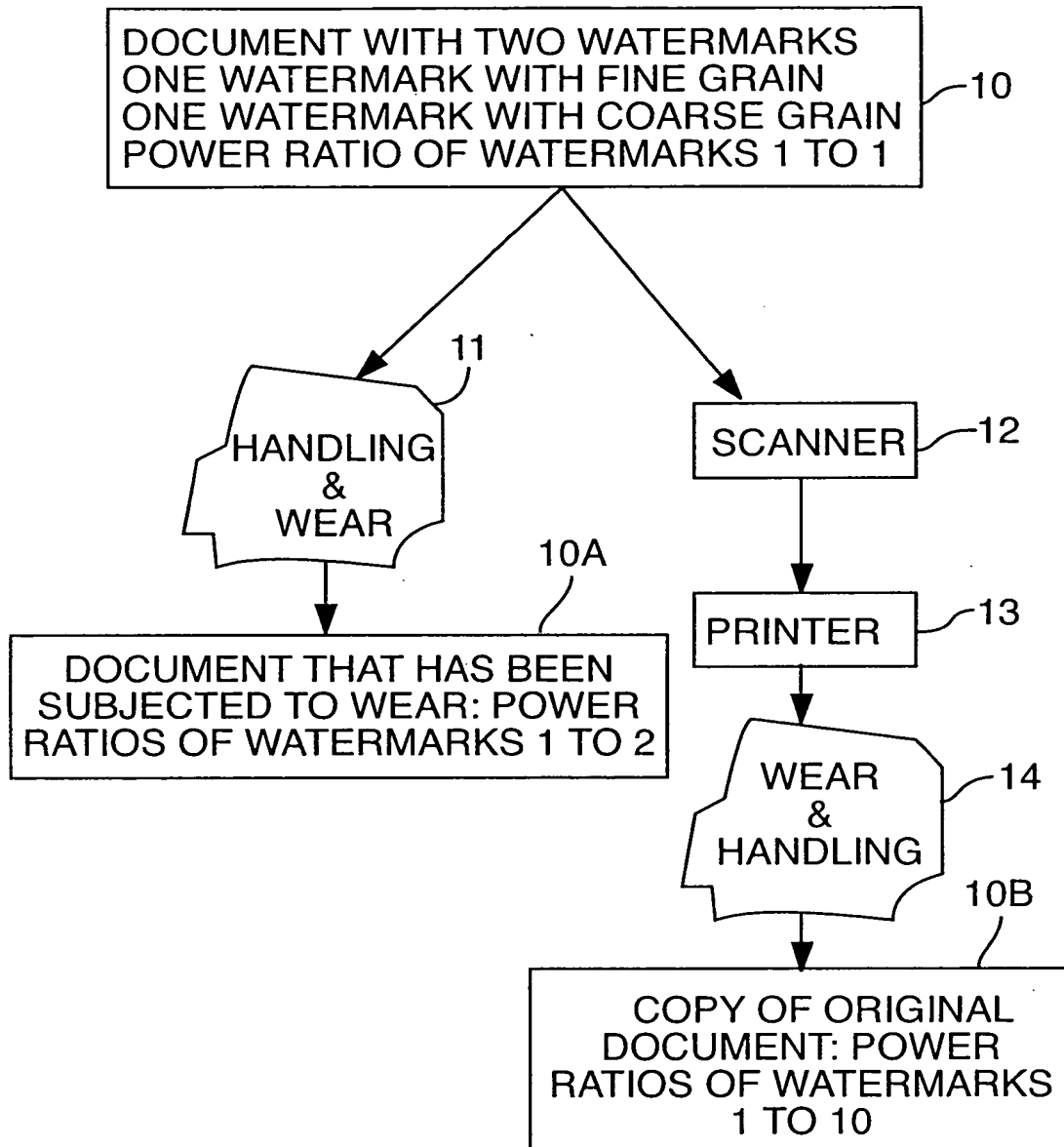


FIG. 2A

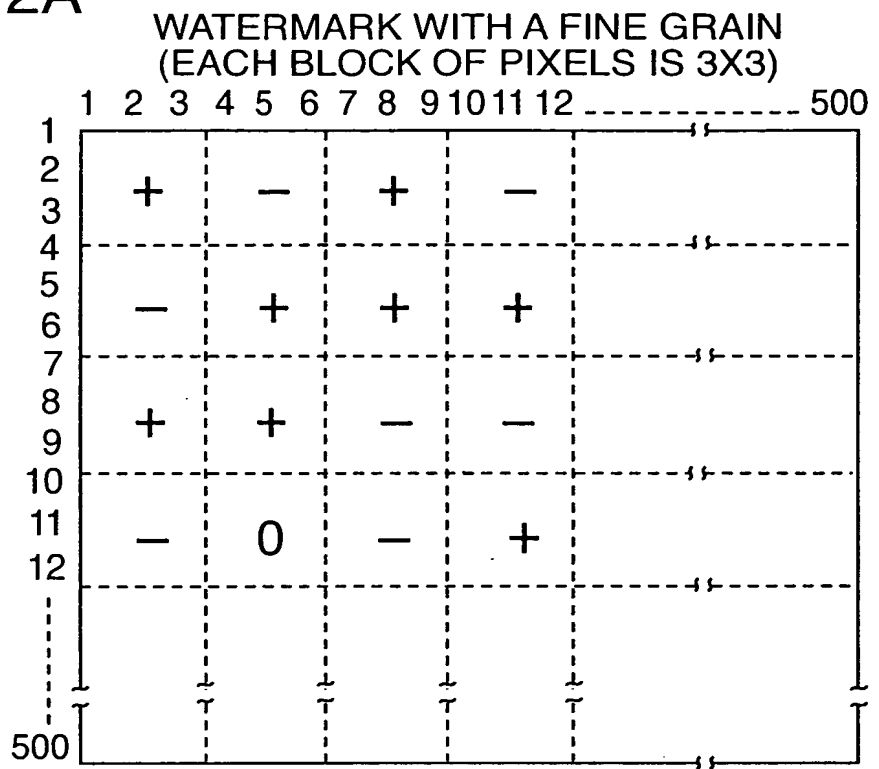


FIG. 2B

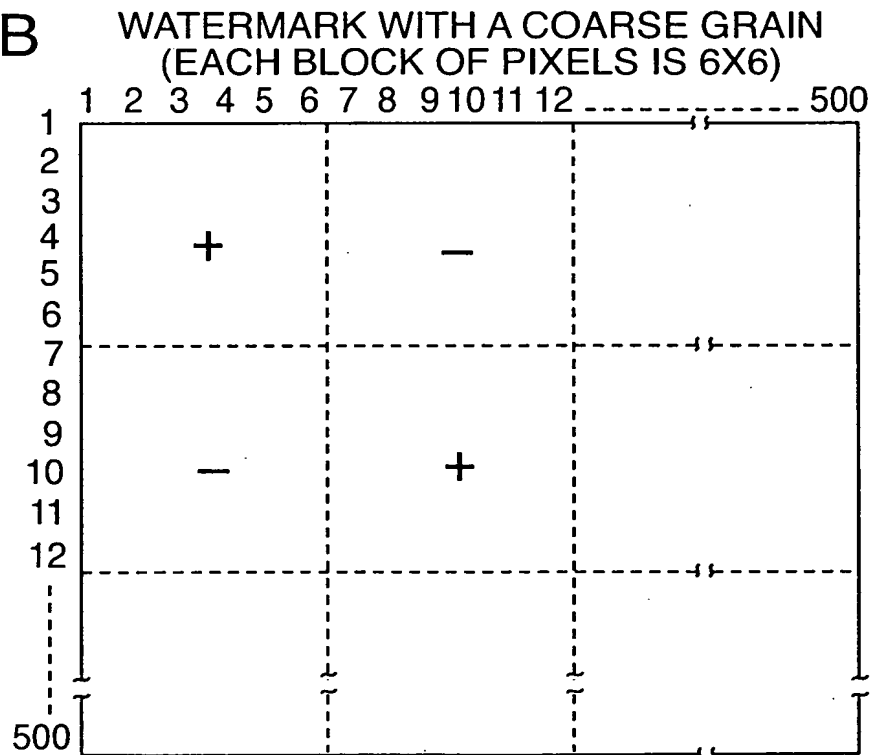


FIG. 2A

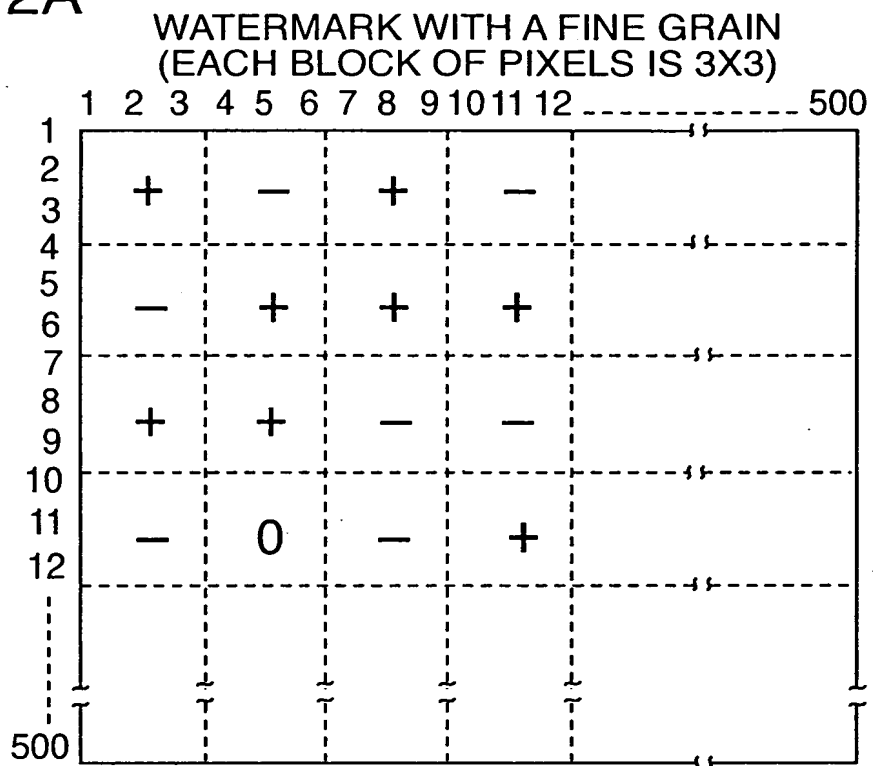


FIG. 2B

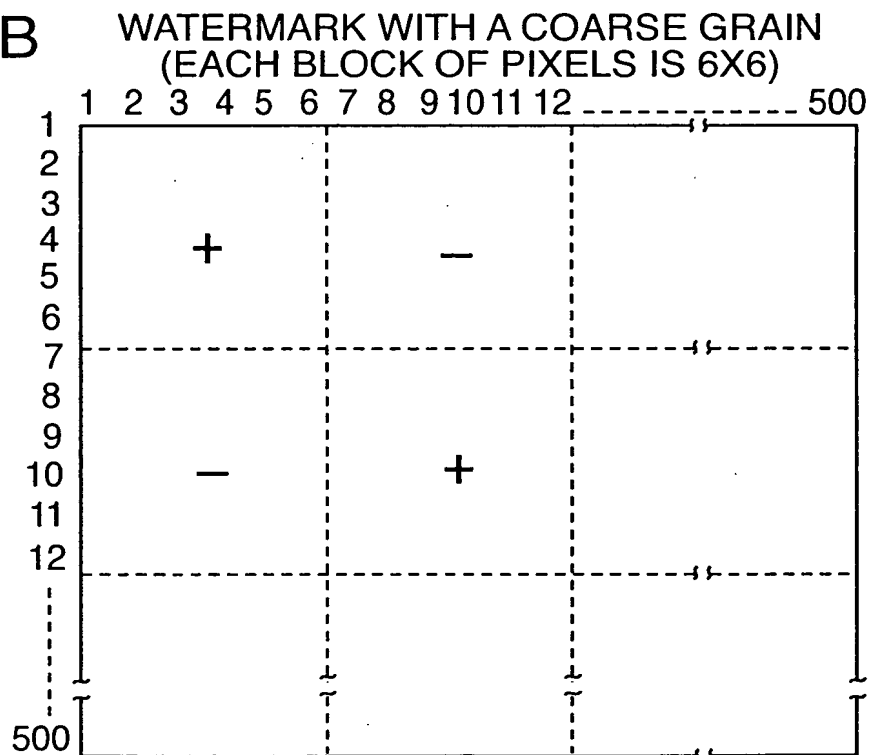


FIG. 2A

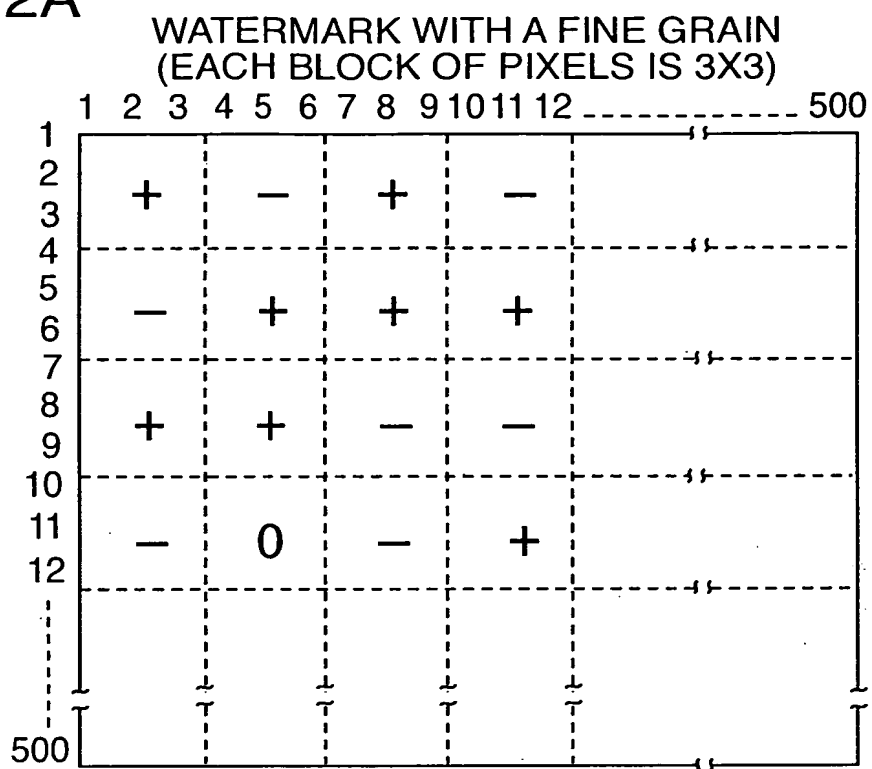


FIG. 2B

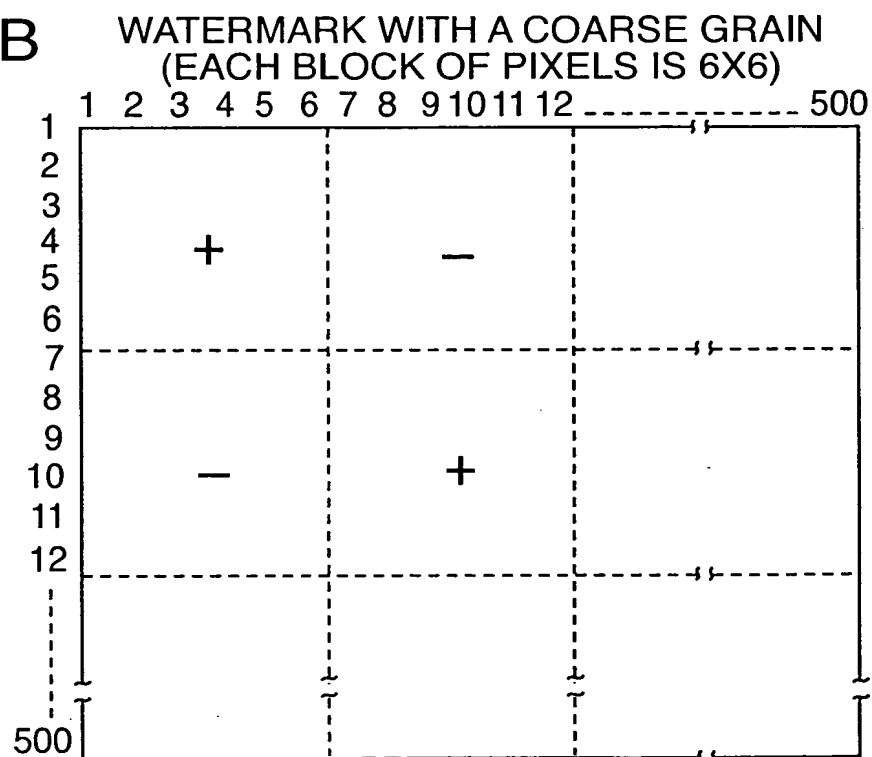


FIG. 2A

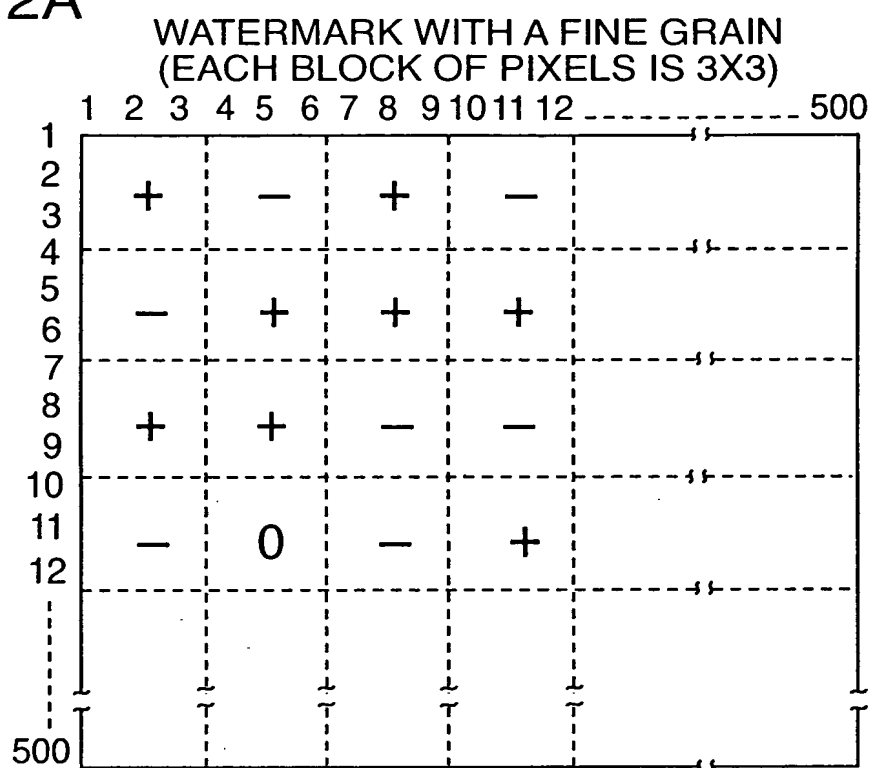


FIG. 2B

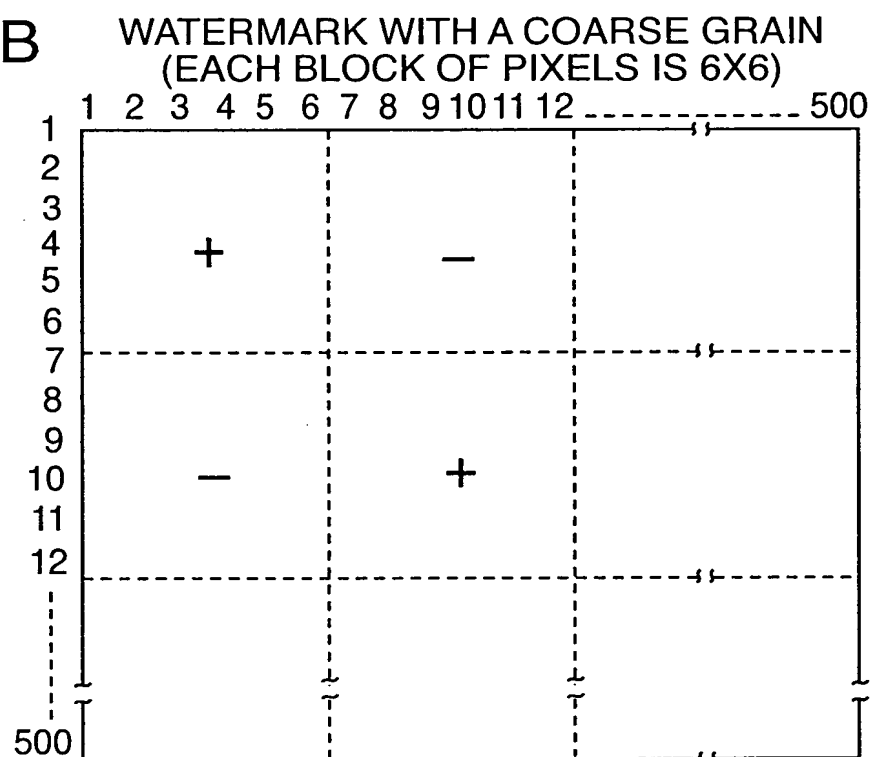


FIG. 3A GEOMETRICALLY LINEAR ASSIGNMENT
OF PIXELS TO EACH BIT

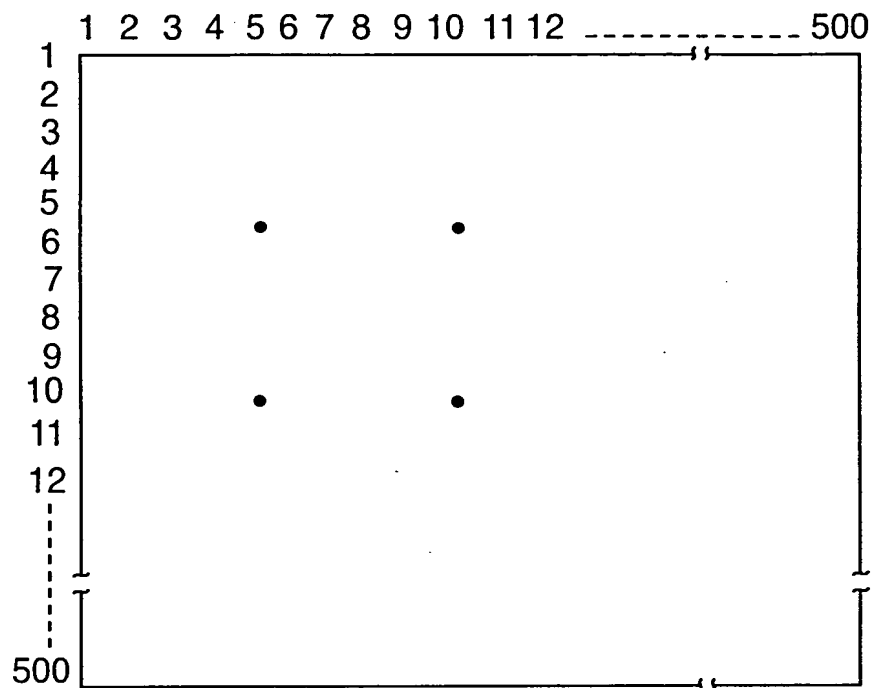


FIG. 3B GEOMETRICALLY RANDOM ASSIGNMENT
OF PIXELS TO EACH BIT

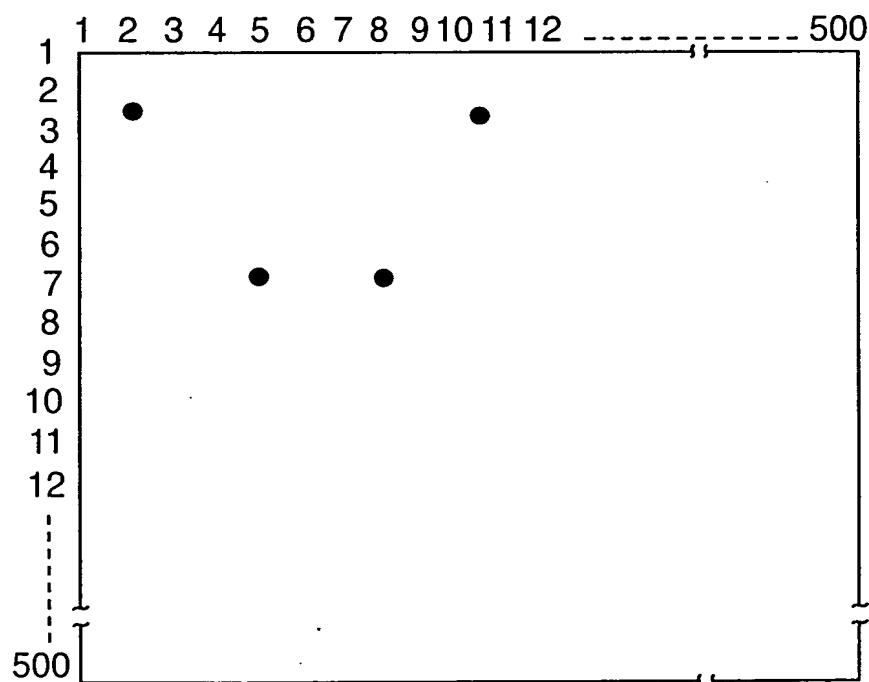


FIG. 3A GEOMETRICALLY LINEAR ASSIGNMENT
OF PIXELS TO EACH BIT

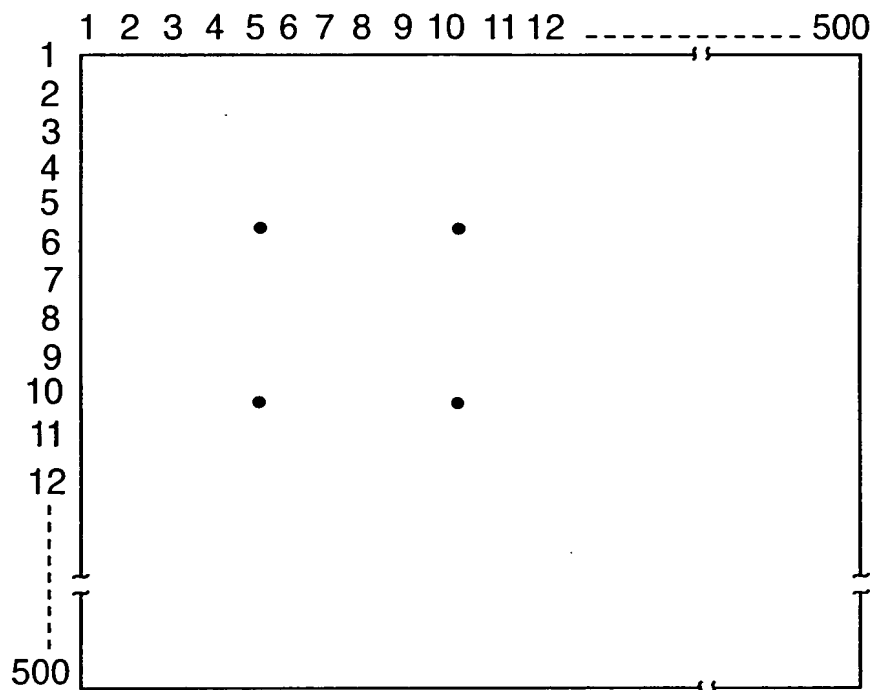


FIG. 3B GEOMETRICALLY RANDOM ASSIGNMENT
OF PIXELS TO EACH BIT

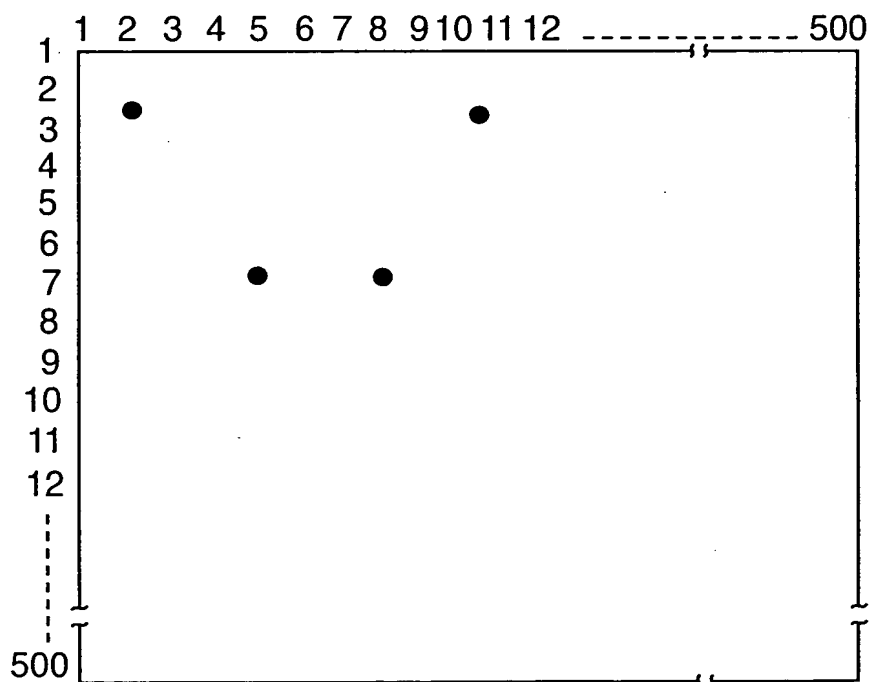


FIG. 3A GEOMETRICALLY LINEAR ASSIGNMENT
OF PIXELS TO EACH BIT

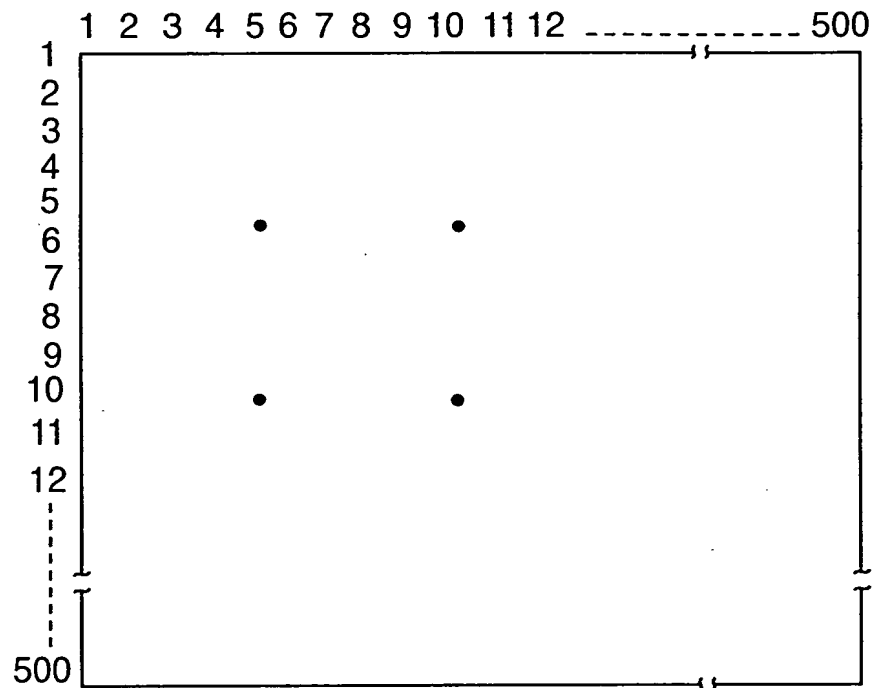
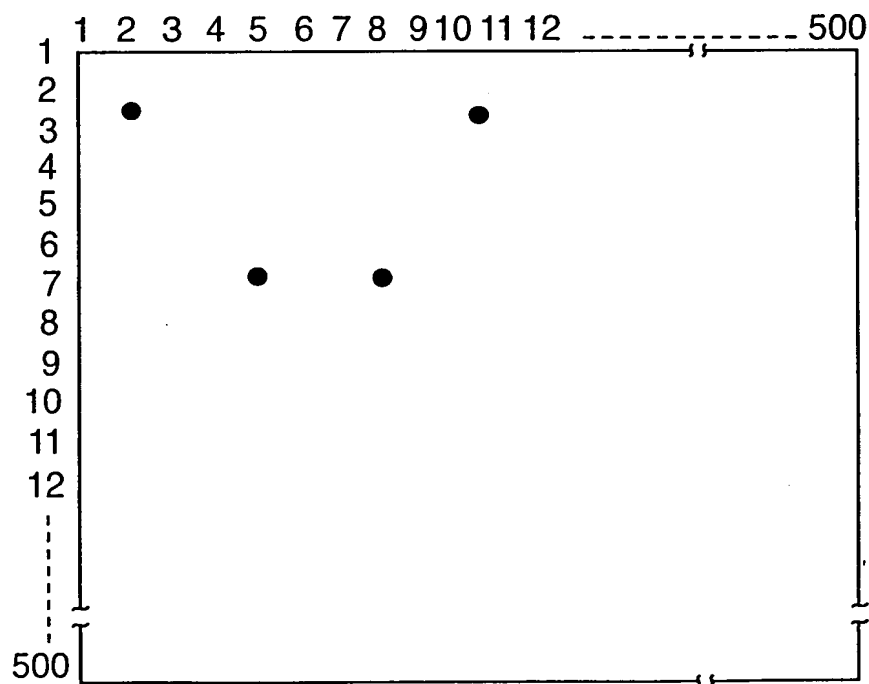


FIG. 3B GEOMETRICALLY RANDOM ASSIGNMENT
OF PIXELS TO EACH BIT



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FIG. 3A GEOMETRICALLY LINEAR ASSIGNMENT
OF PIXELS TO EACH BIT

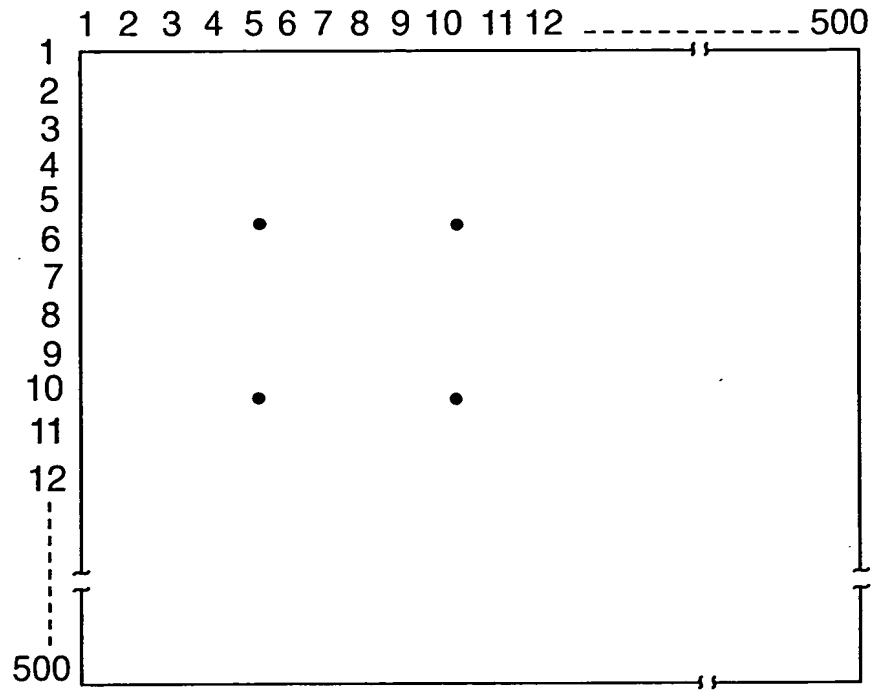
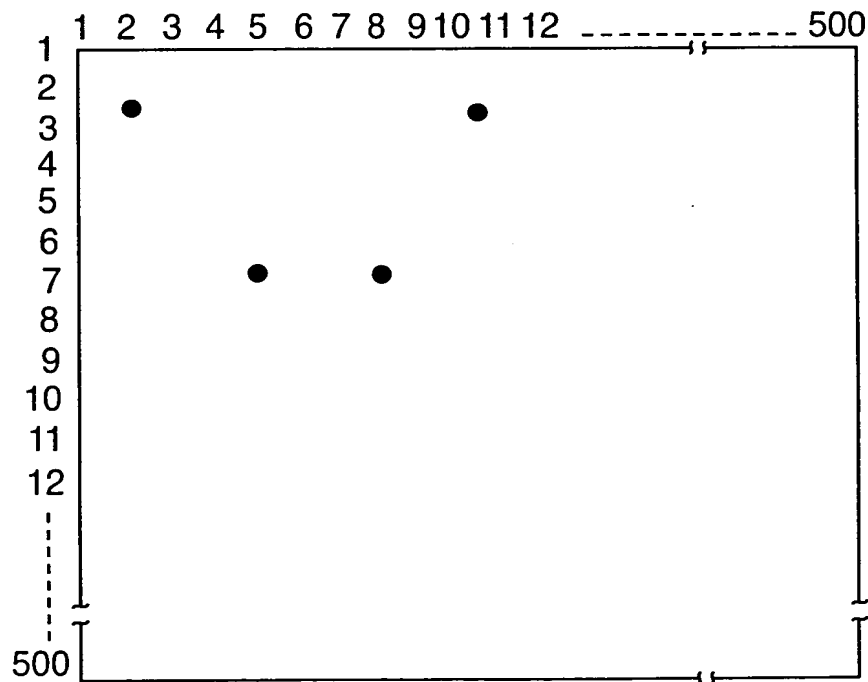


FIG. 3B GEOMETRICALLY RANDOM ASSIGNMENT
OF PIXELS TO EACH BIT



- (4) FINAL IMAGE $(RGB1 + RGB2) / 2 = RGBF$

FIG. 4

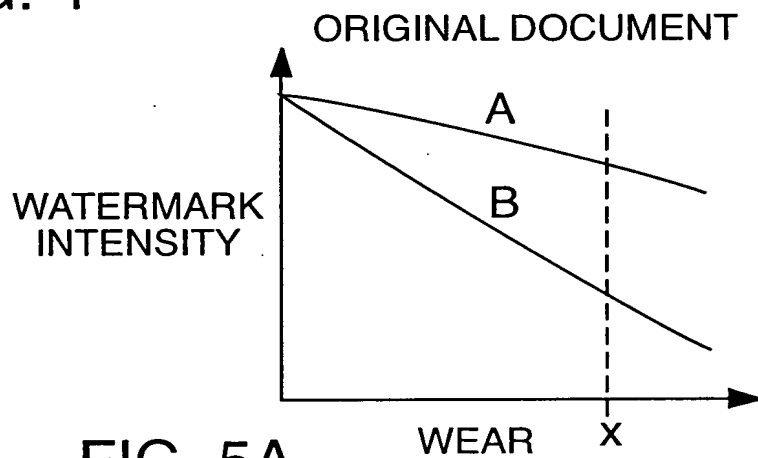


FIG. 5A

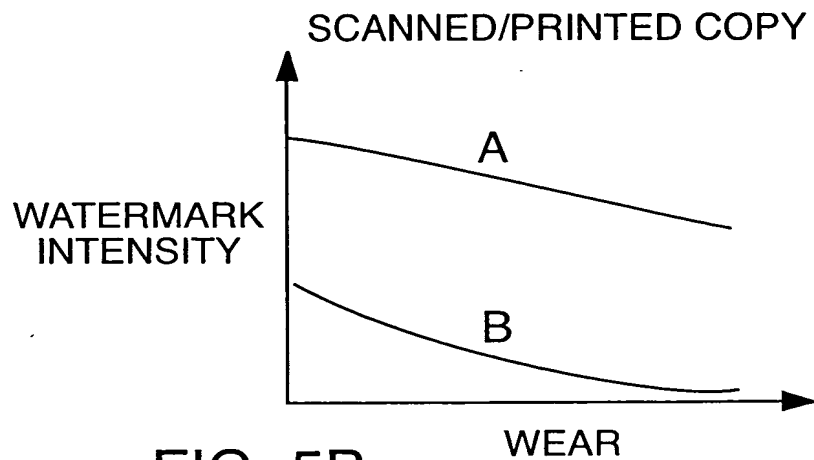


FIG. 5B

- (1) $RGB \rightarrow HSI$
- (2) FIRST WATERMARK
 $HSI + WMI \Delta \xrightarrow{T} RGB1$
- (3) SECOND WATERMARK
 $HSI + \text{BIASED } WM2 \Delta \rightarrow RGB2$
- (4) FINAL IMAGE $(RGB1 + RGB2) / 2 = RGBF$

FIG. 4

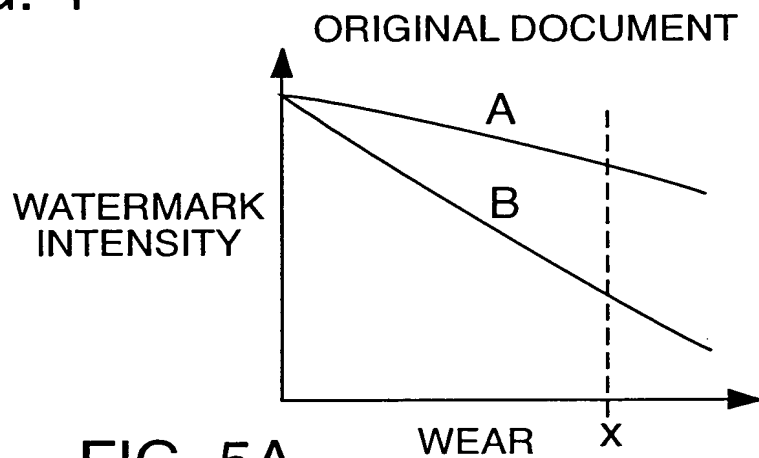


FIG. 5A

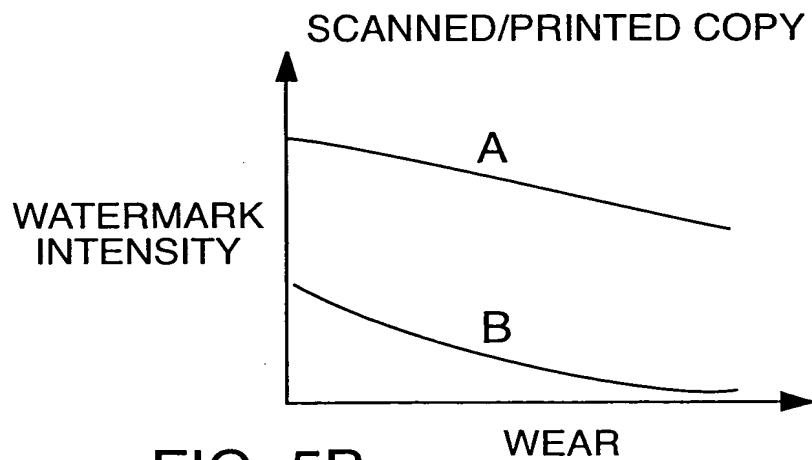


FIG. 5B

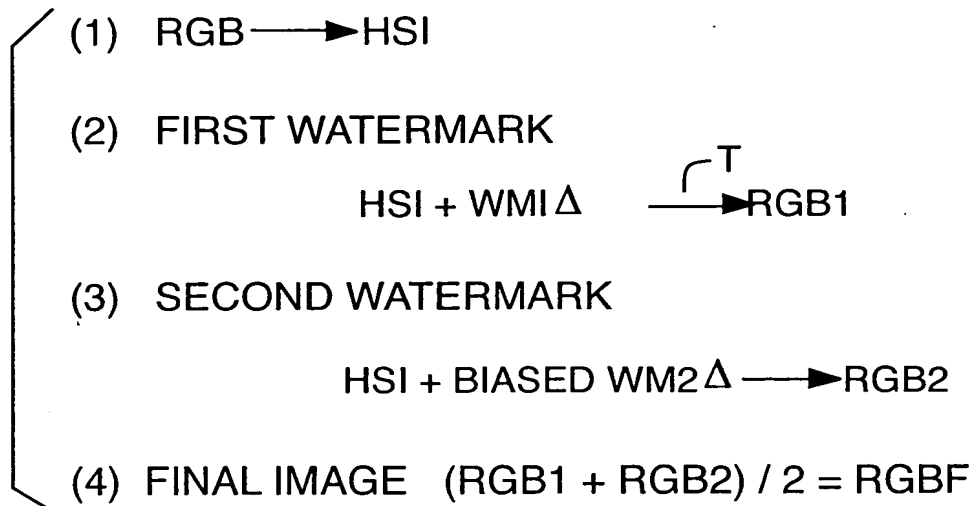


FIG. 4

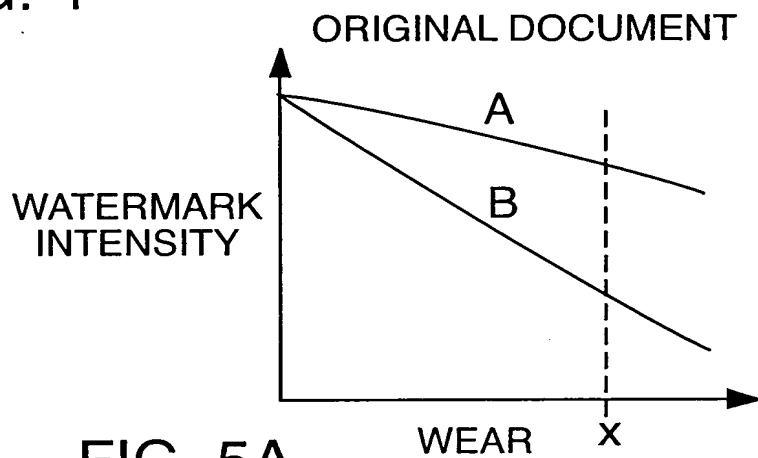


FIG. 5A

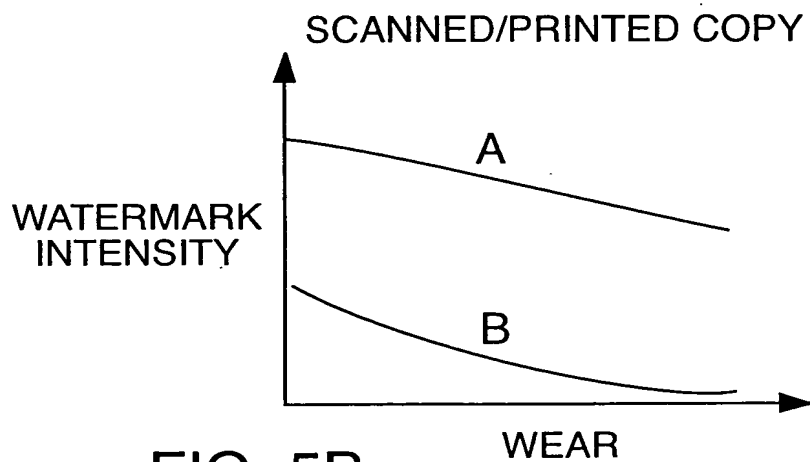


FIG. 5B

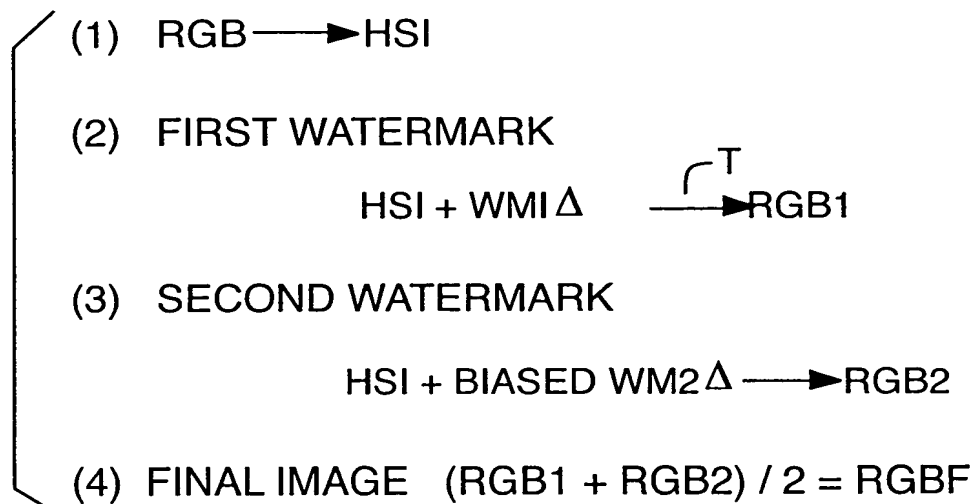


FIG. 4

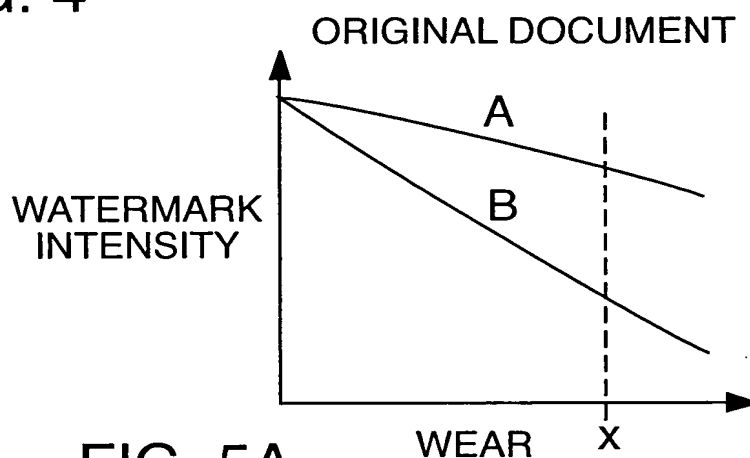


FIG. 5A

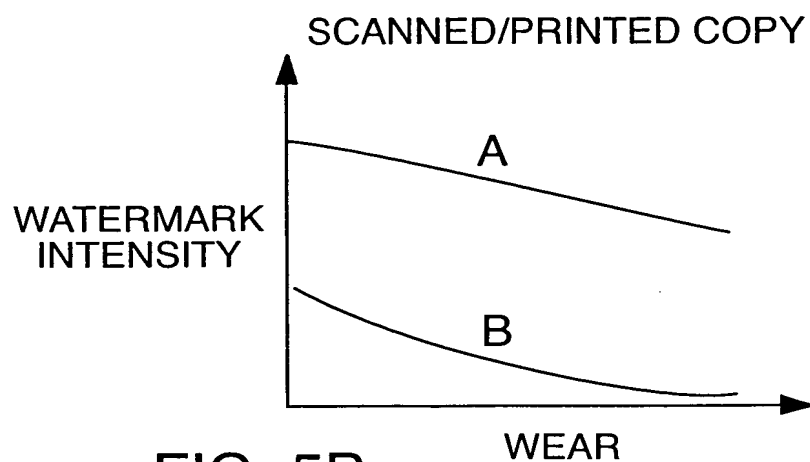


FIG. 5B

Figure 1 (Prior Art)

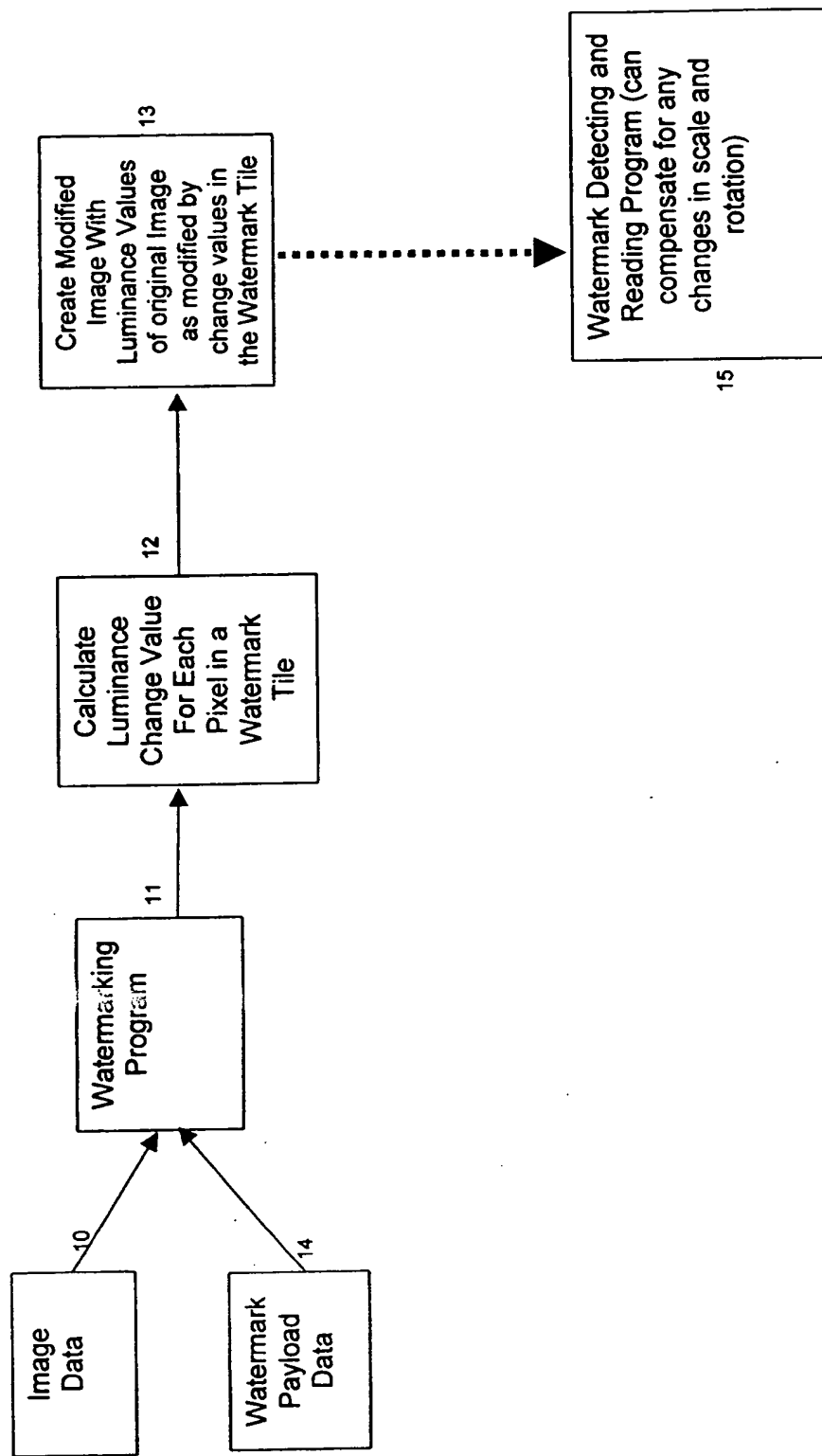


Figure 2

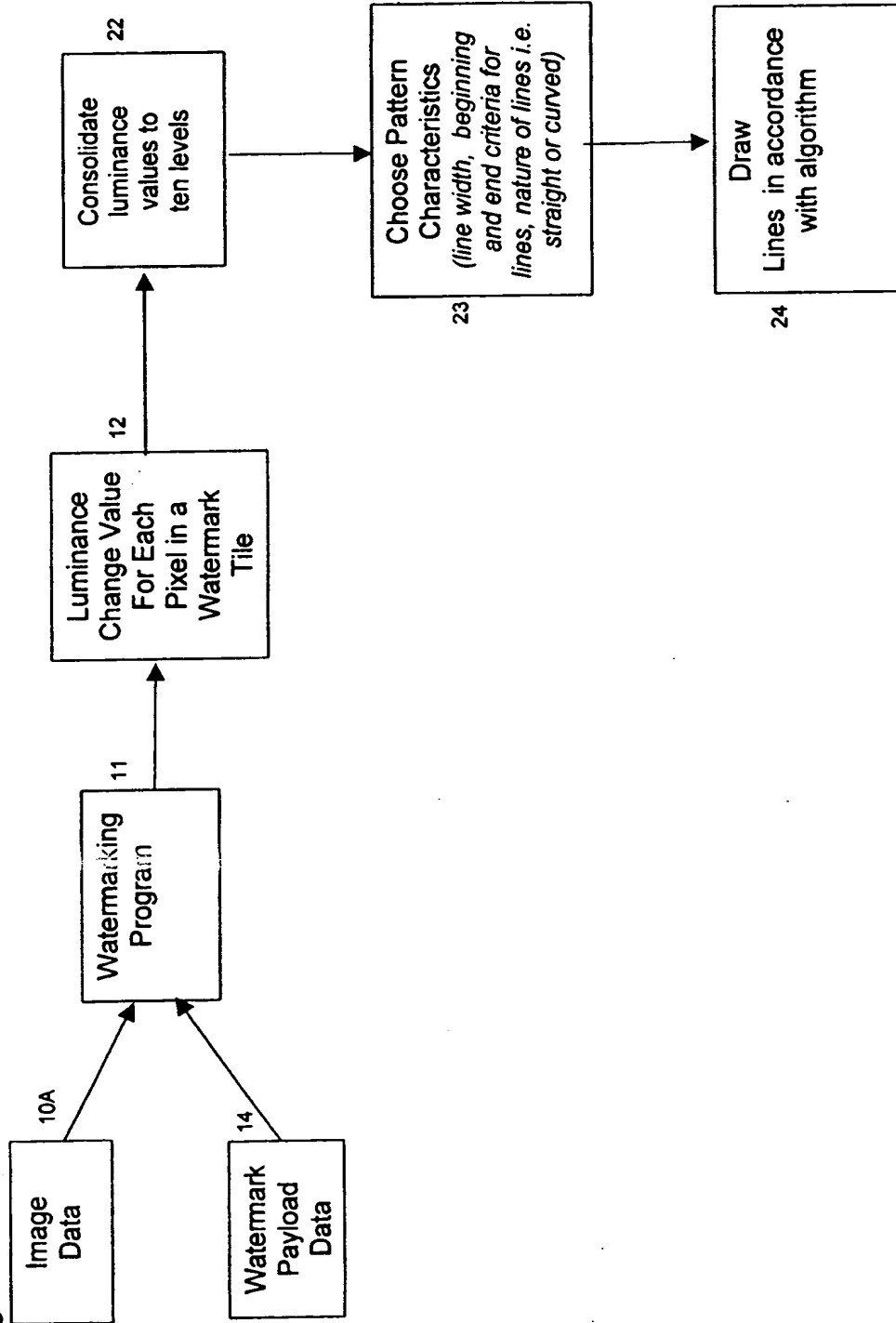
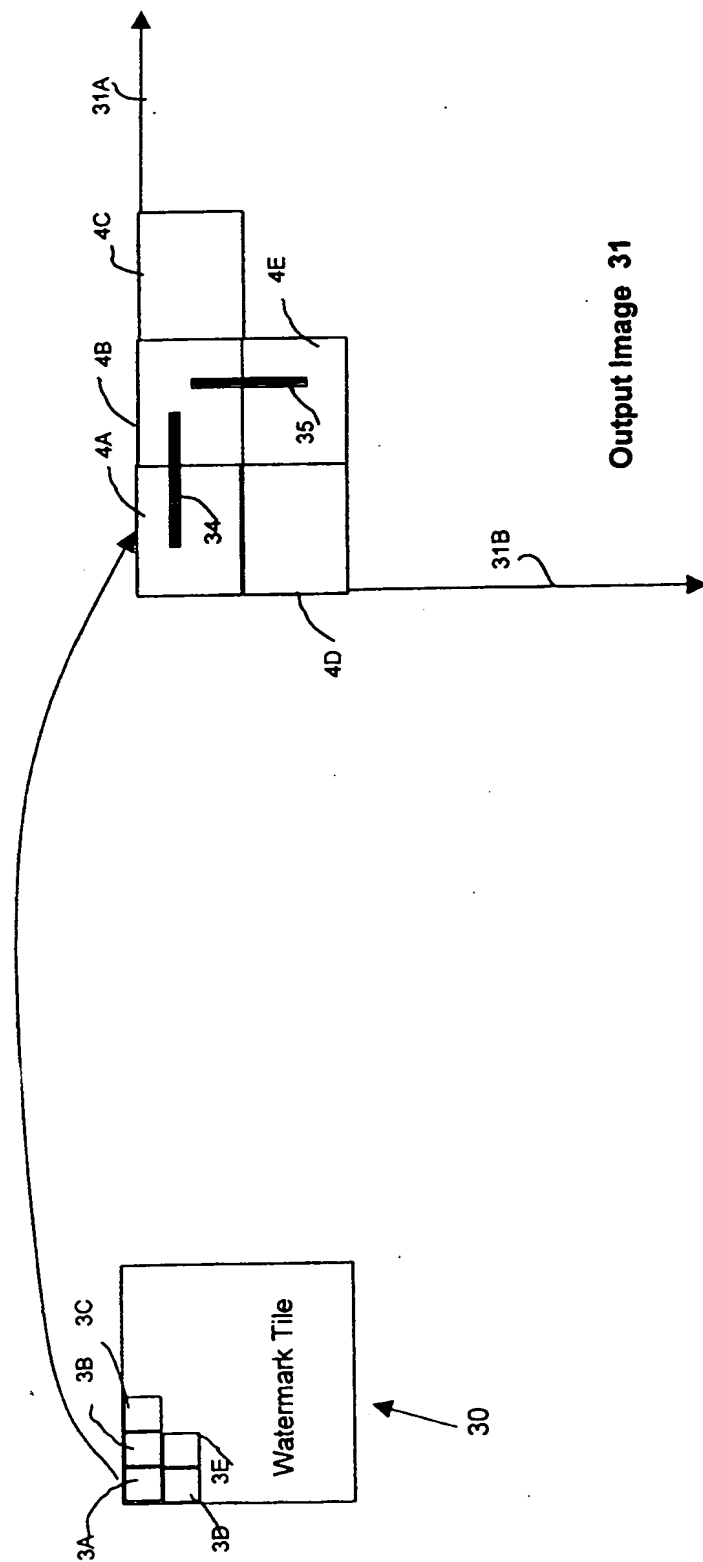


Figure 3



(note to draftsman -- edges of all squares line up -- sides of all squares have same weight lines)

Figure 4

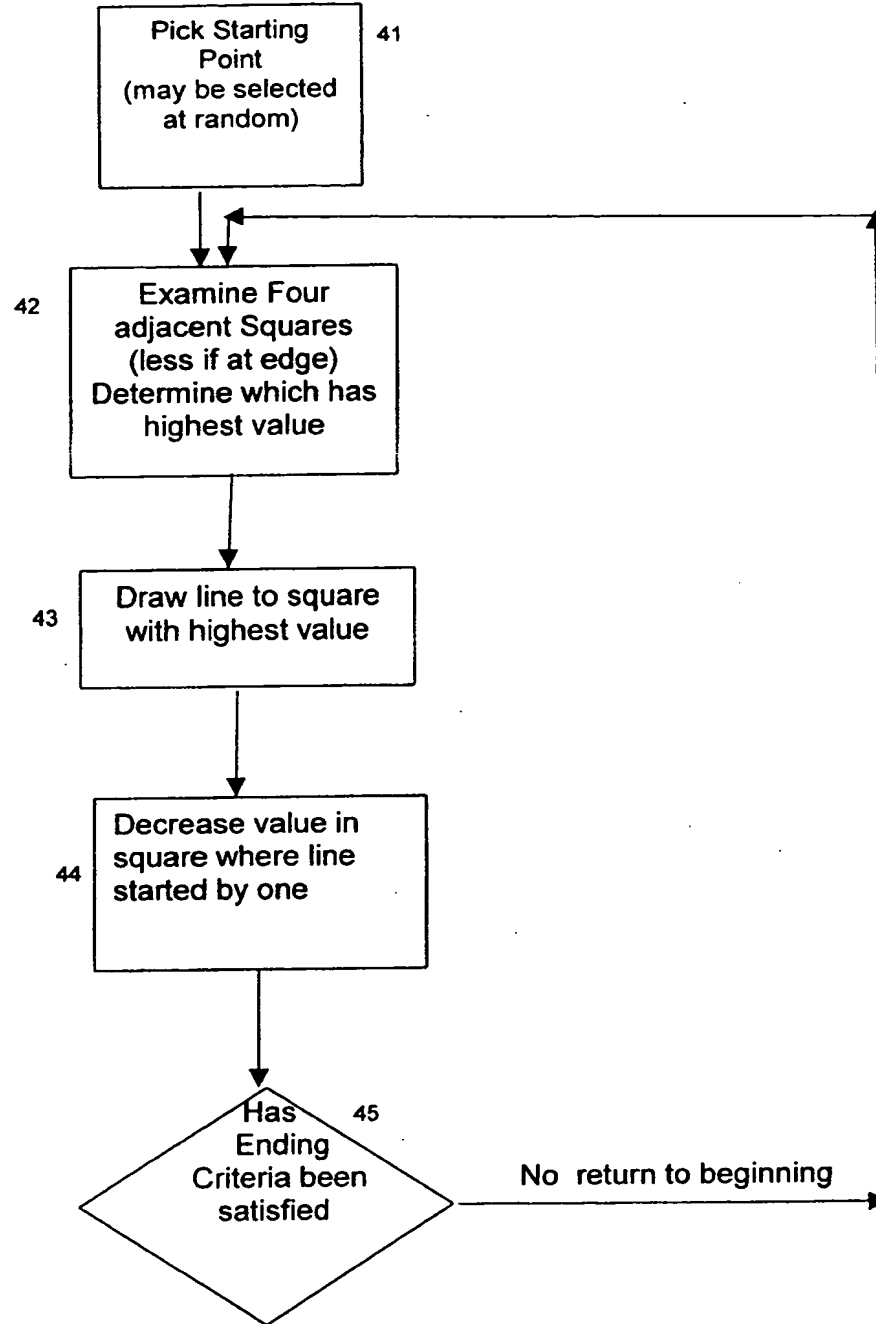


Figure 5

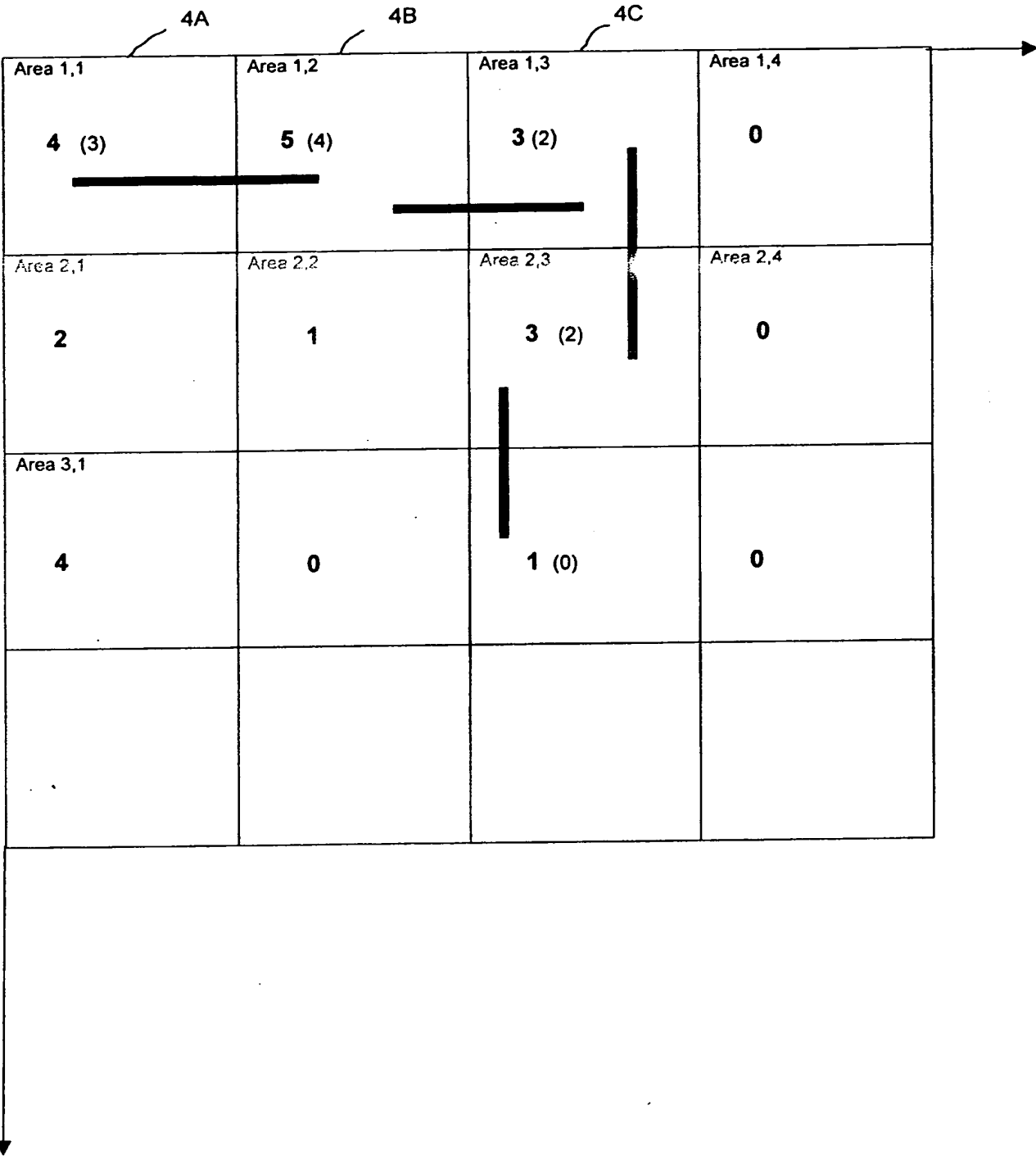


Figure 6

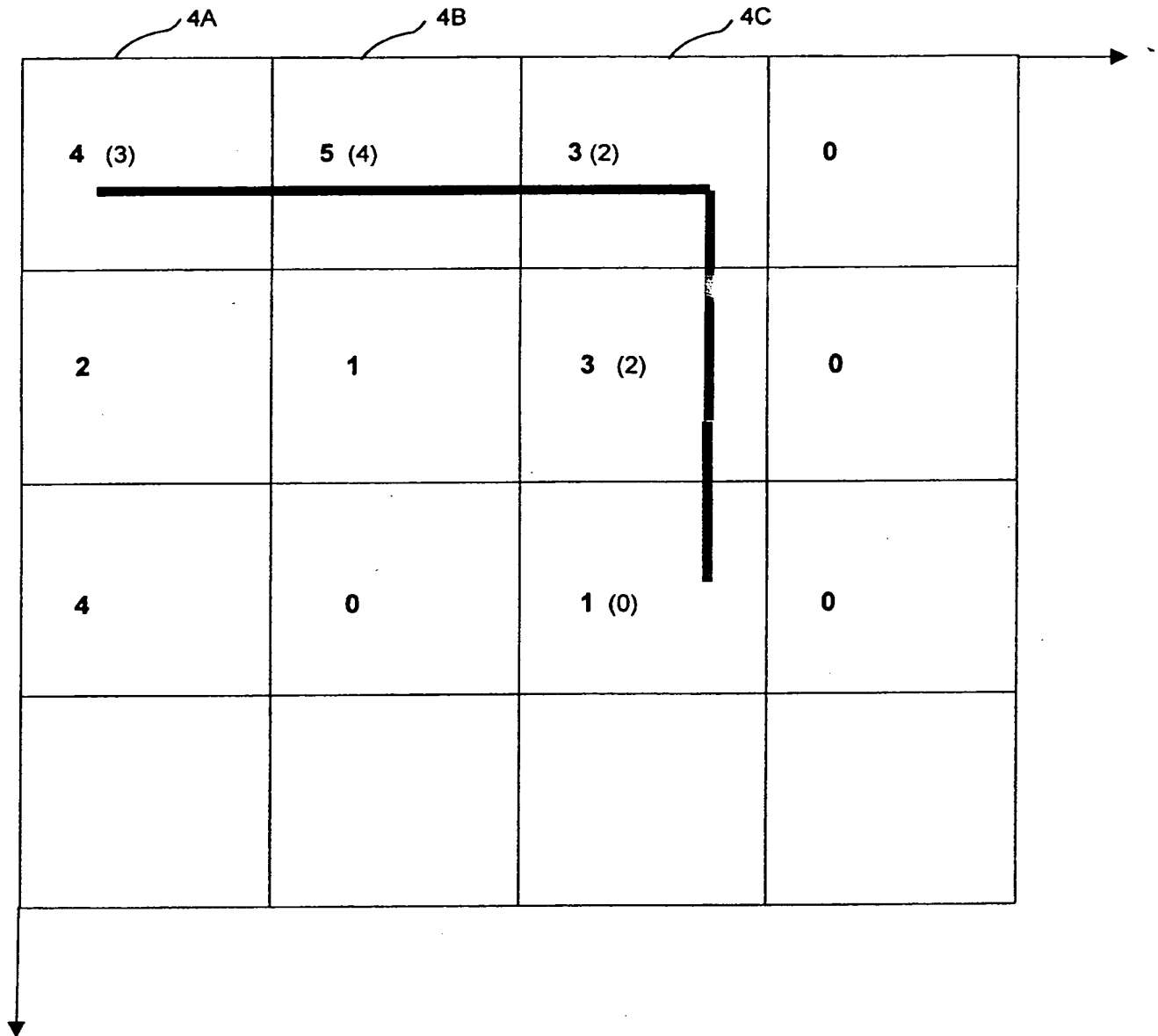
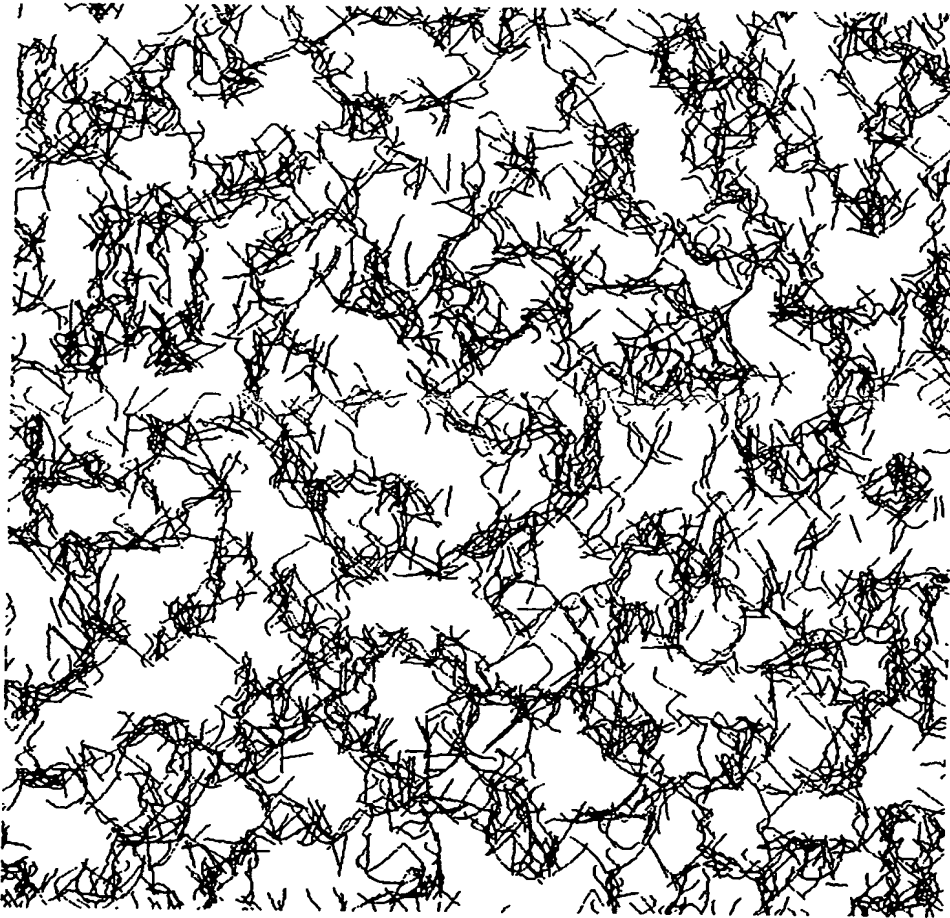


Figure 7



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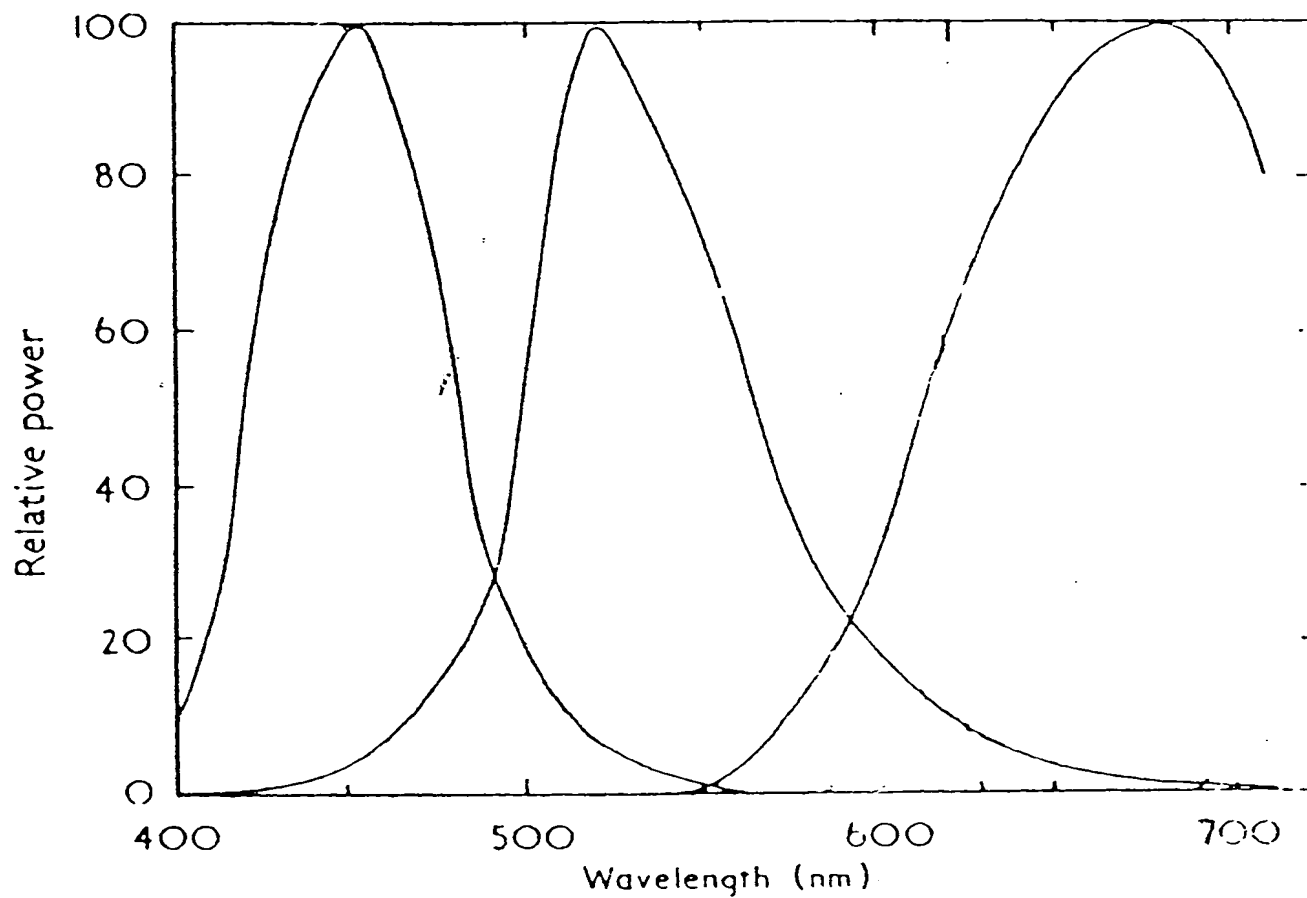


Fig. 1

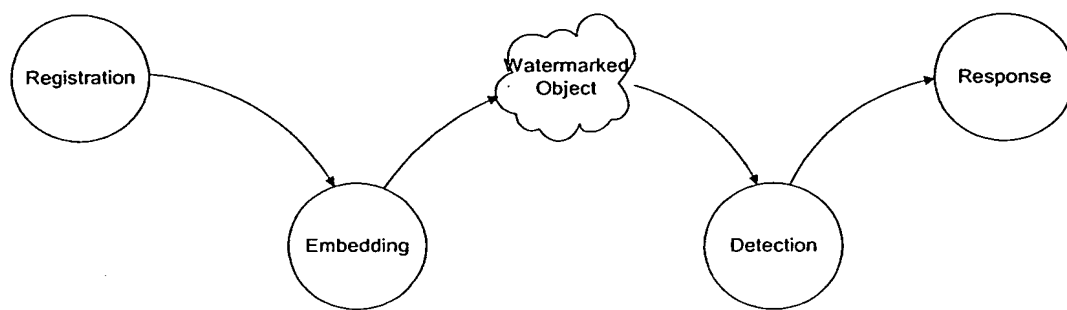


FIG. 1

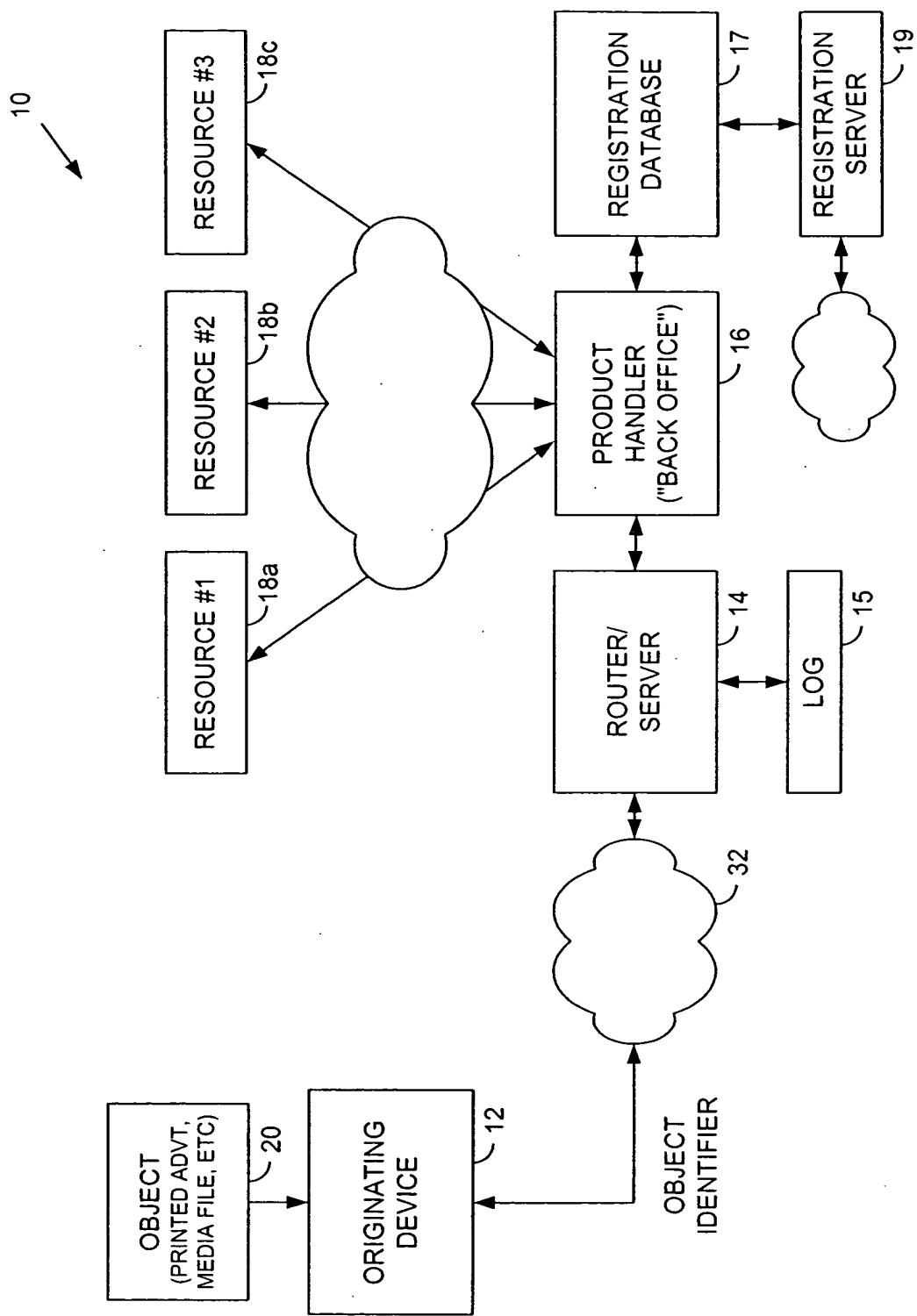


FIG. 2

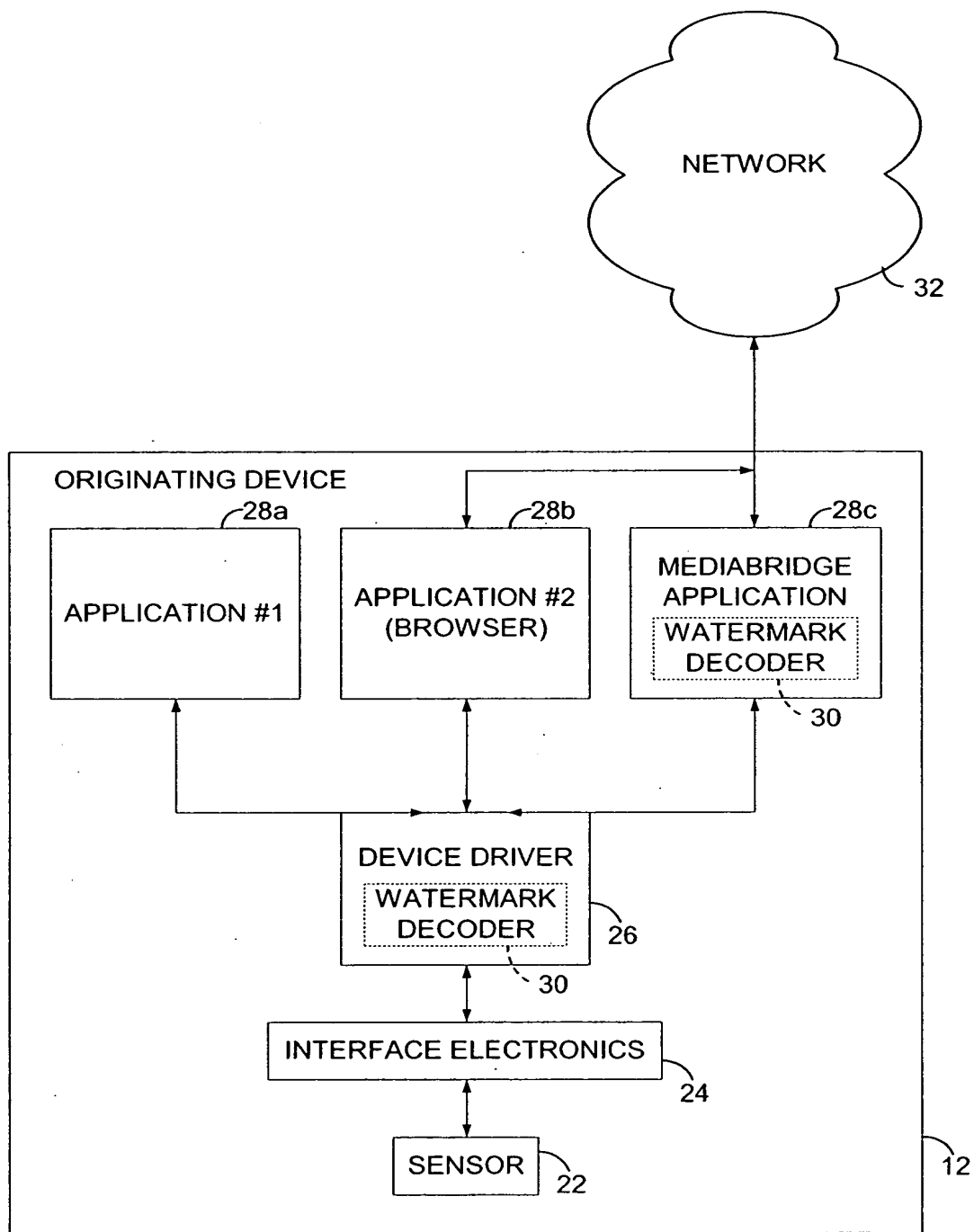


FIG. 3

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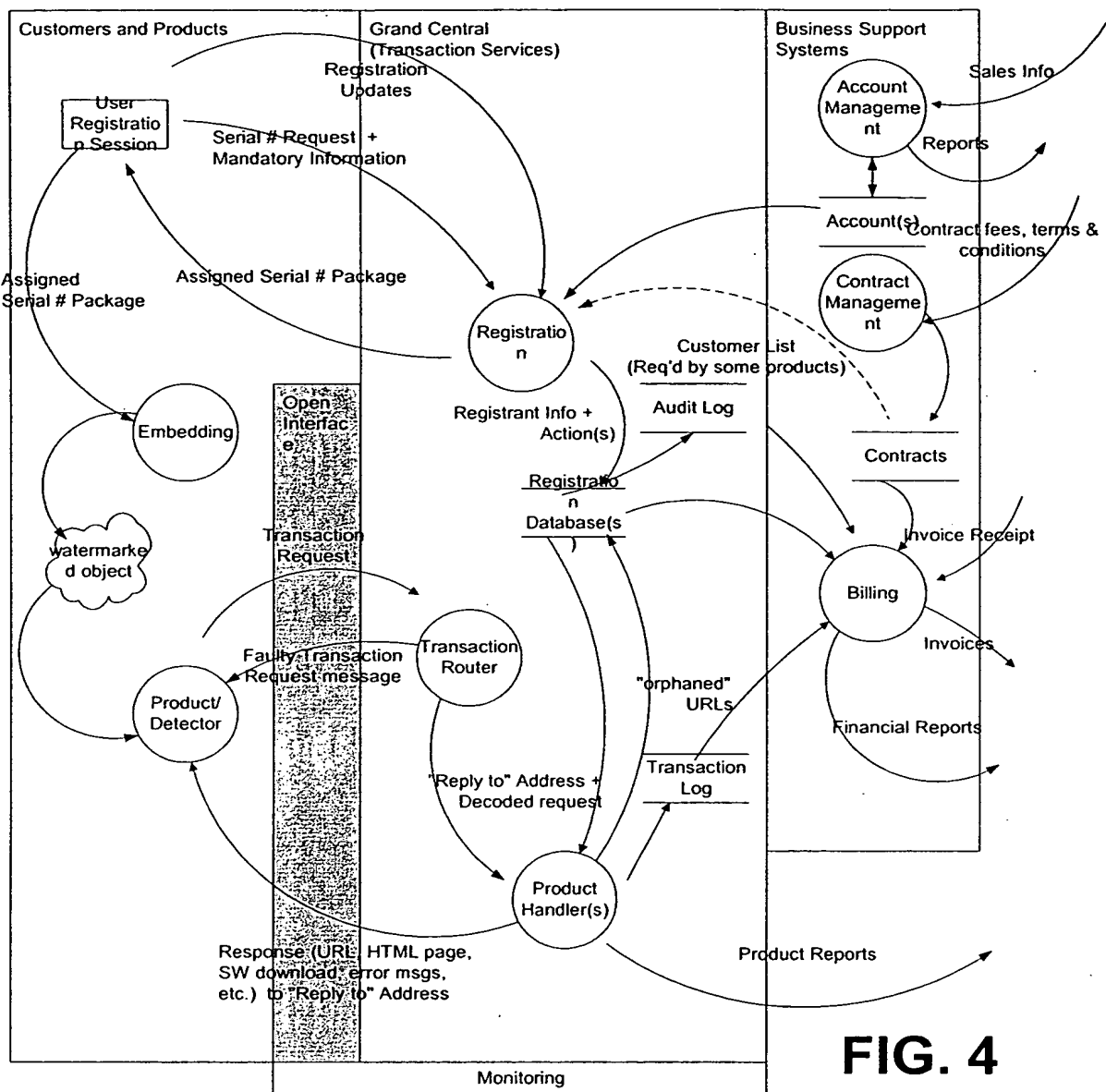


FIG. 4

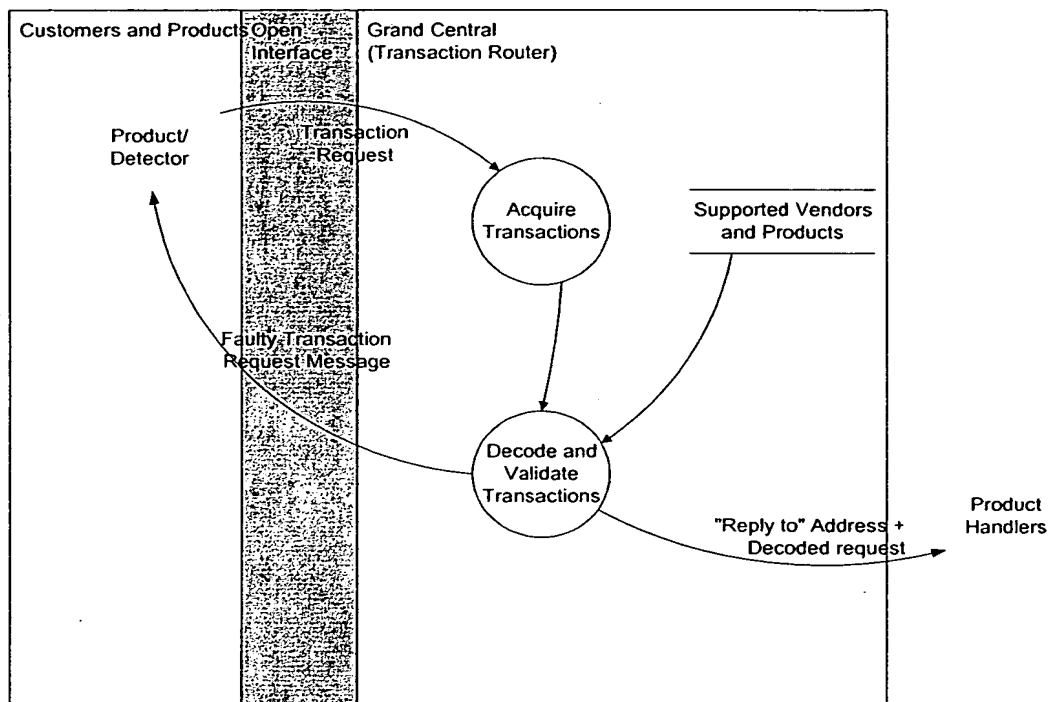


FIG. 5

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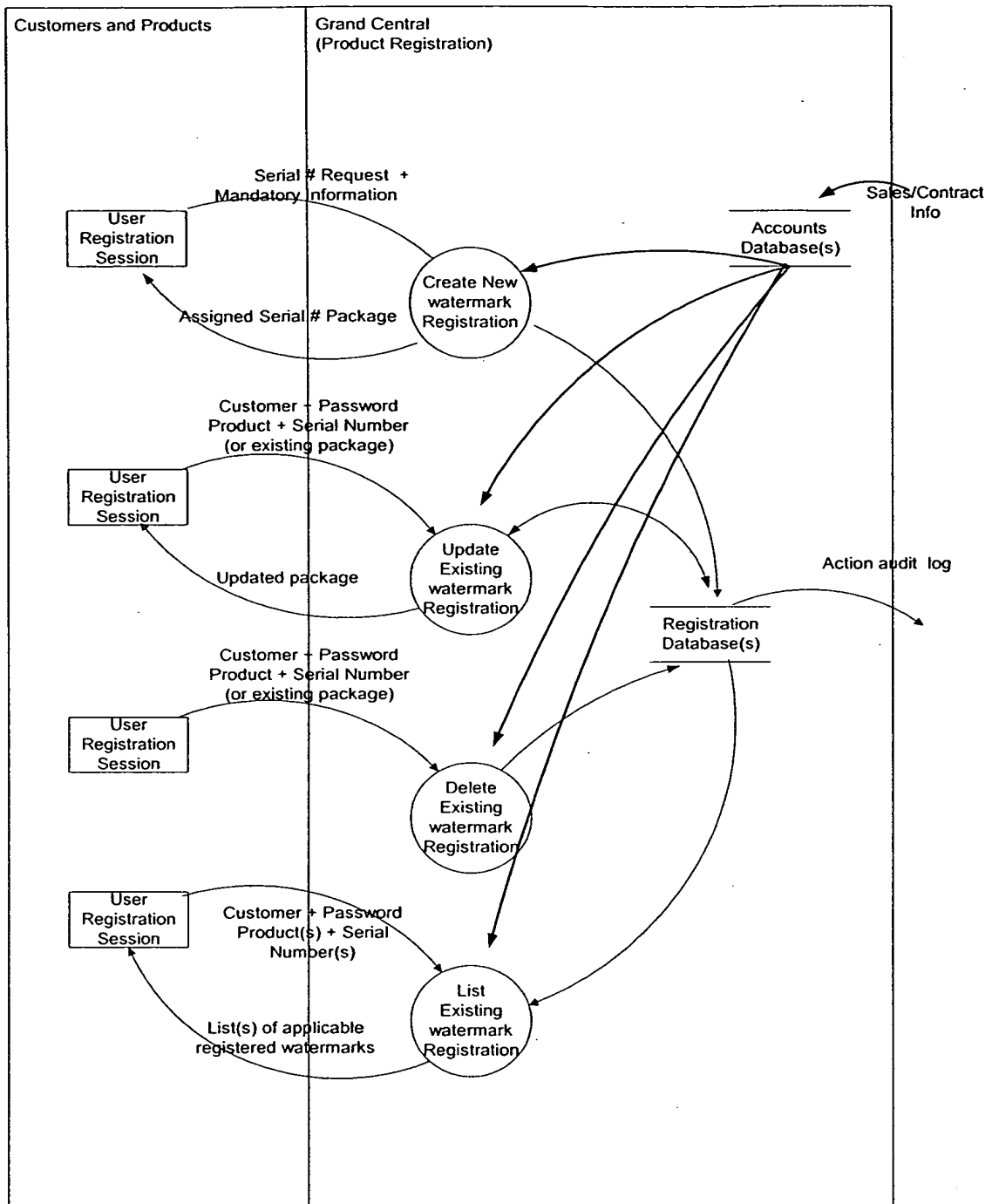


FIG. 6

```

graph TD
    subgraph Open_Interface [Open Interface]
        direction TB
        C[Customers and Product Detectors]
        D[Product/Detector]
    end

    subgraph Grand_Central [Grand Central Product Handler]
        direction TB
        L[Log and Validate Request]
        E[Execute Requested Action]
        P[Produce Usage Reports]
        S[Scan Internet for orphaned links]
    end

    subgraph Databases [Databases]
        direction TB
        T[Transaction Log]
        R[Registration Database]
    end

    C -- "Request for Service Message" --> D
    D -- "Request for Service Message" --> L
    L -- "Faulty Transaction Request Message" --> D
    L -- "Request for Service Message" --> E
    E -- "Requested Information/Action" --> D
    L -- "Reply to Address + Decoded request" --> T
    T -- "Transaction Log" --> P
    P -- "Usage Reports" --> R
    R -- "Registration Database" --> S
    S -- "Update watermark status as needed" --> R
    R -- "Referenced Internet Sites" --> S
    S -- "Requests for Reports" --> P
    
```

The flowchart illustrates the MediaBridge system architecture, showing the interaction between the Open Interface, Grand Central Product Handler, Log and Validate Request, Execute Requested Action, Produce Usage Reports, and Scan Internet for orphaned links.

Open Interface: Customers and Product Detectors, Product/Detector.

Grand Central Product Handler: Log and Validate Request, Execute Requested Action, Produce Usage Reports, Scan Internet for orphaned links.

Databases: Transaction Log, Registration Database.

Flow:

- Customers and Product Detectors send a **Request for Service Message** to the Product/Detector.
- The Product/Detector sends a **Request for Service Message** to the Log and Validate Request.
- The Log and Validate Request sends a **Faulty Transaction Request Message** back to the Product/Detector.
- The Log and Validate Request sends a **Request for Service Message** to the Execute Requested Action.
- The Execute Requested Action sends **Requested Information/Action** back to the Product/Detector.
- The Log and Validate Request sends a **"Reply to" Address + Decoded request** to the Transaction Log.
- The Transaction Log sends a **Transaction Log** to the Produce Usage Reports.
- The Produce Usage Reports sends **Usage Reports** to the Registration Database.
- The Registration Database sends a **Registration Database** to the Scan Internet for orphaned links.
- The Scan Internet for orphaned links sends **Update watermark status as needed** back to the Registration Database.
- The Scan Internet for orphaned links sends **Referenced Internet Sites** to the Scan Internet for orphaned links.
- The Scan Internet for orphaned links sends **Requests for Reports** to the Produce Usage Reports.

APPENDIX G DRAWINGS

The screenshot shows a Windows 95 desktop with a single application window open. The window's title bar reads "Microsoft Internet Explorer". The address bar contains the file path: "file:///C:/Program%20Files/Internet%20Explorer/MP3Bridge/CD-ROM/". The main content area displays a graphical user interface for "Aspirin Sonic Relief". At the top of this interface is a date and time display showing "03/08/04:25". Below this is a menu bar with options: "File", "Edit", "View", "Options", "Help", "About". The main area is divided into two panes. The left pane shows a list of files and folders: "Debug", "Release", "res", "MP3Bridge.apr", "MP3Bridge.h", "MP3BridgeDlg.h", "Resource.h", "StdAfx.h", "inetes.gil", "ChrisCraig.html", "JoeBird.html", "purchase.html", "Rock1oleado.html", "TracyDawg.html", "Aspirin SonicR elec.r", "MP3Bridge.ncb", "MP3Bridge.cpp", "StdAfx.cpp", "MP3Bridge.opt", "MP3Bridge.dsp", "MP3Bridge.dsw", "MP3Bridge.rc", "ReadMe.txt", "mp3bridge.html", "MP3BridgeDlg.cpp", "MP3Bridge.plg", and "MP3Bridge.clw". The right pane shows a detailed view of the selected file, "Data CD defaulted...", with a "Click here to upgrade to the CD Quality version" link. Below the main content area is a status bar showing "CD-ROM" and "Data CD defaulted...". The taskbar at the bottom of the screen shows several open applications: "Start", "Control Panel", "My Computer", "MP3Bridge Demo", "Document1", "MP3Bridge Demo", "Music Match Juke", and "C:\Program Files\Internet Explorer\MP3Bridge Demo".

FIG. 9

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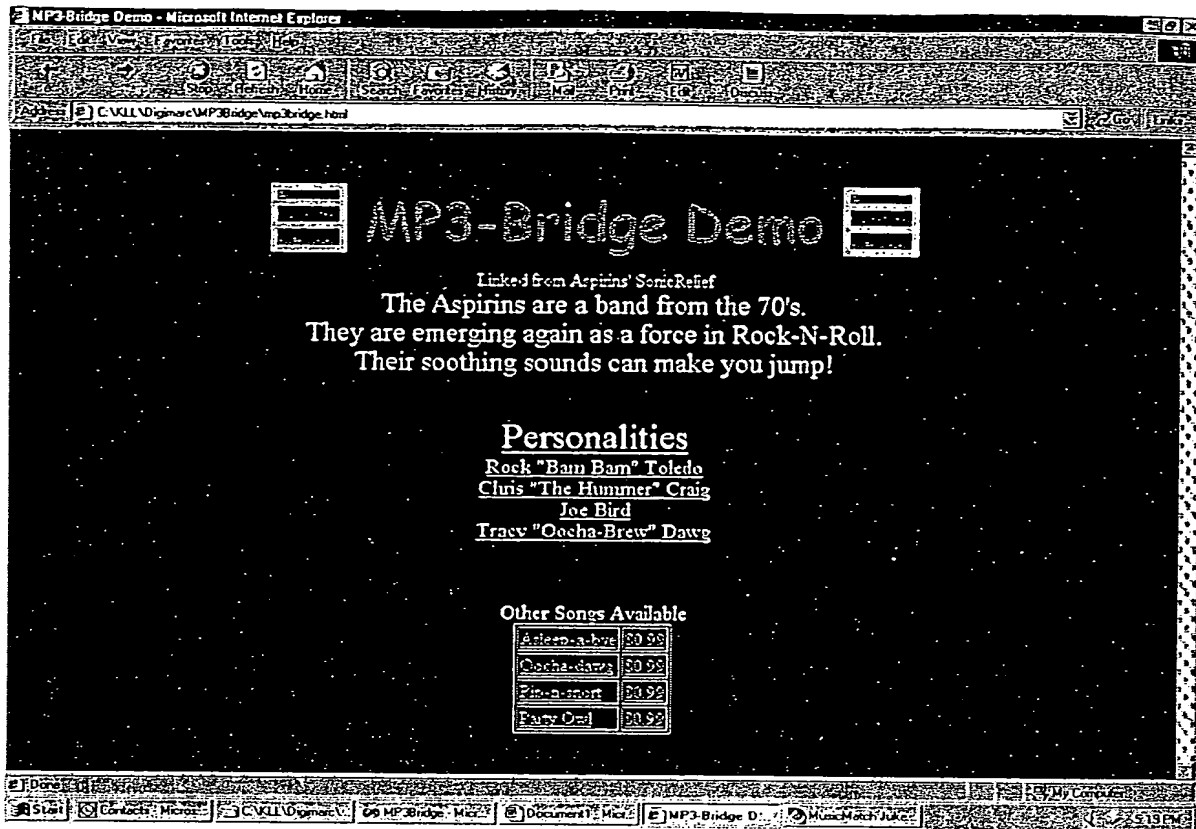


FIG 10

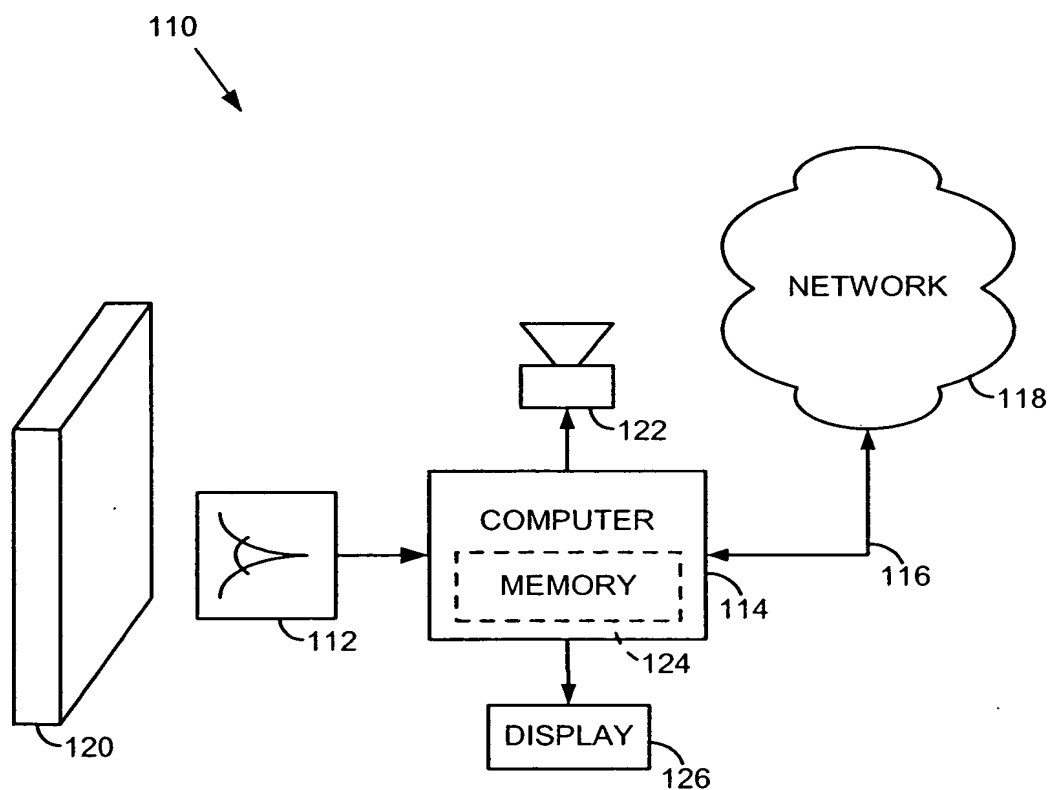
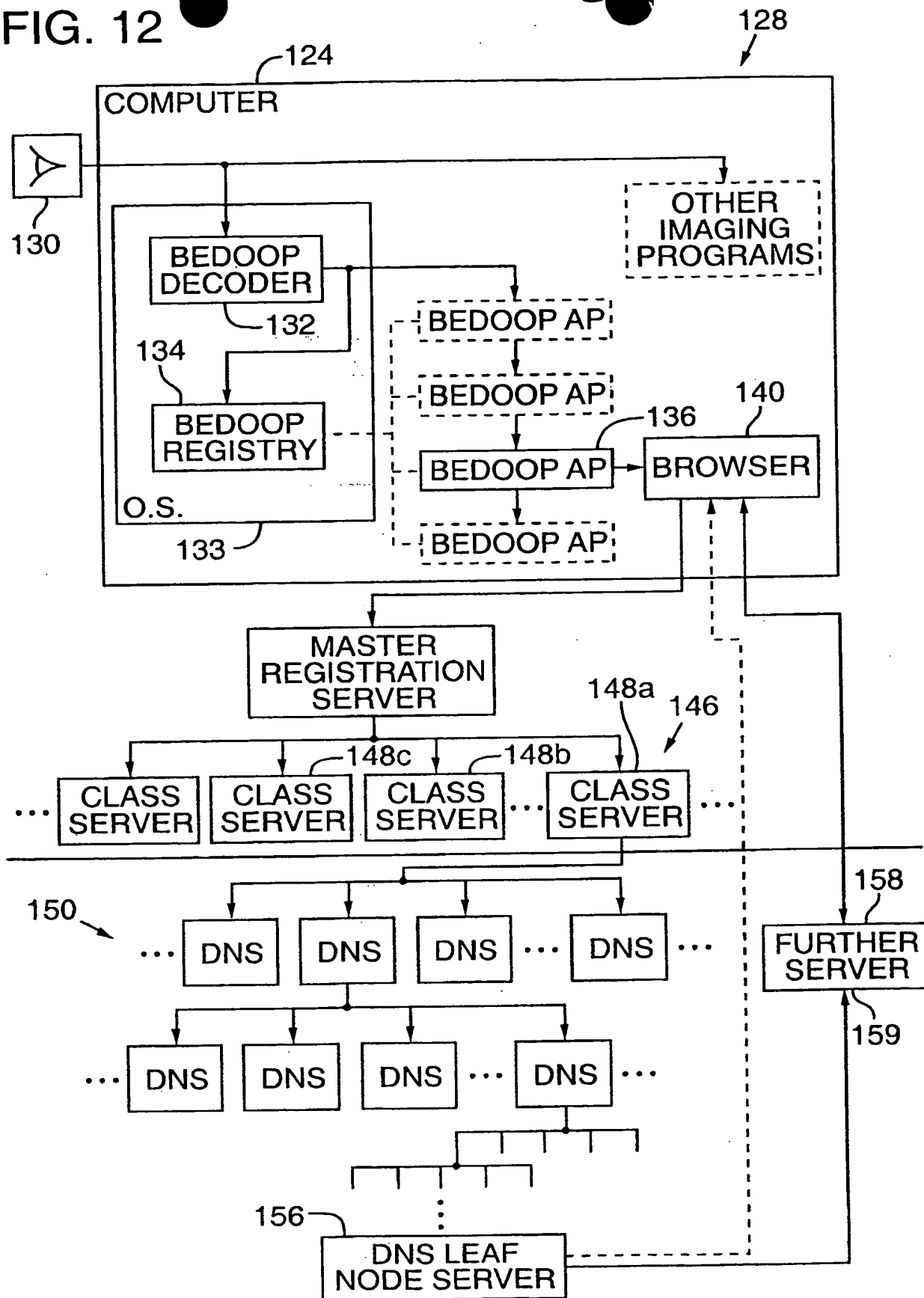


FIG. 11

FIG. 12



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"P05T00" 99ET0800

FIG. 13

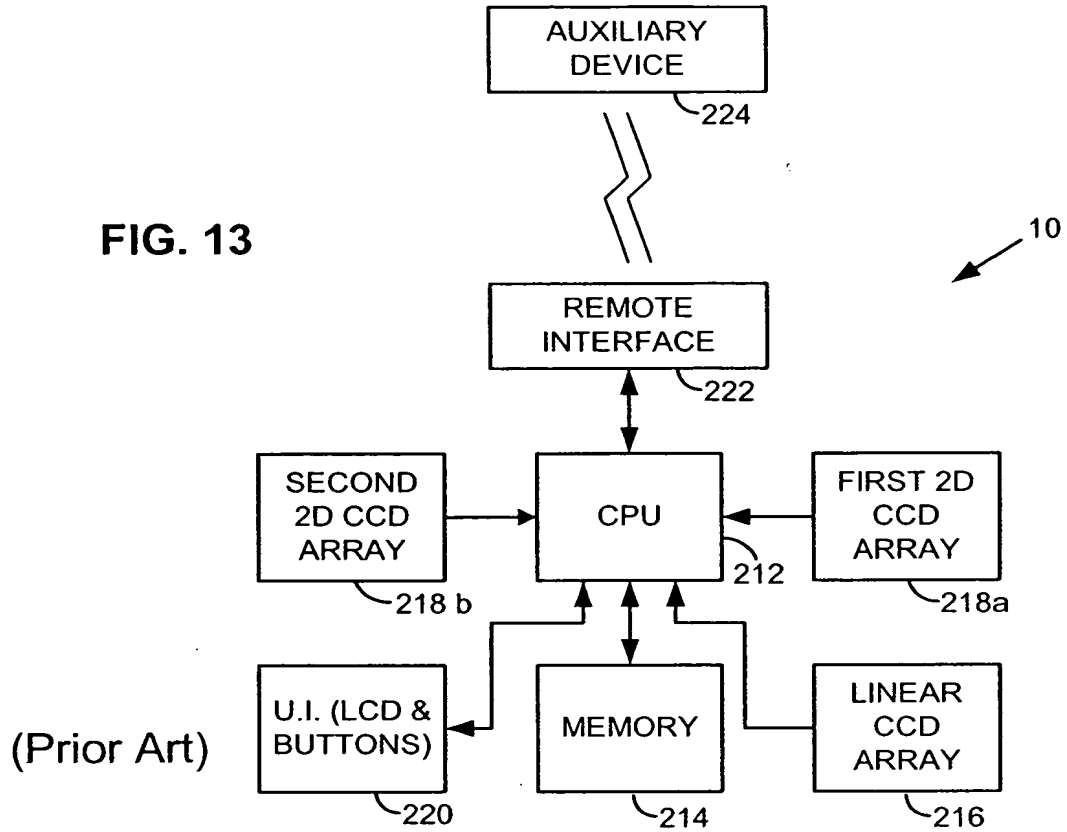
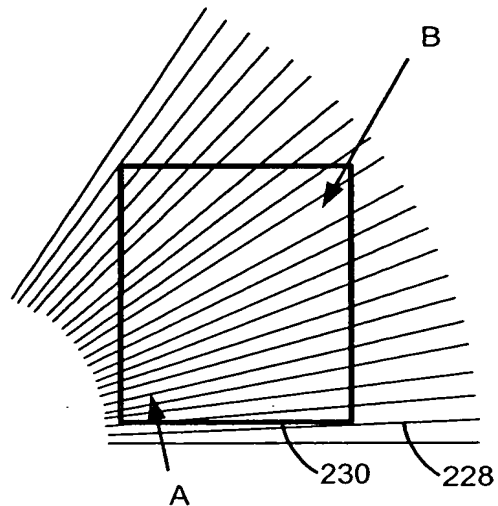
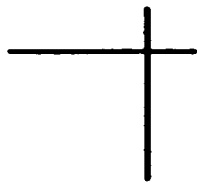
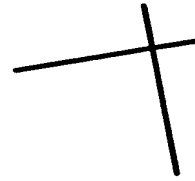


FIG. 14





Grid Orientation Under
CCD 218a



Grid Orientation Under
CCD 218b

FIG. 15

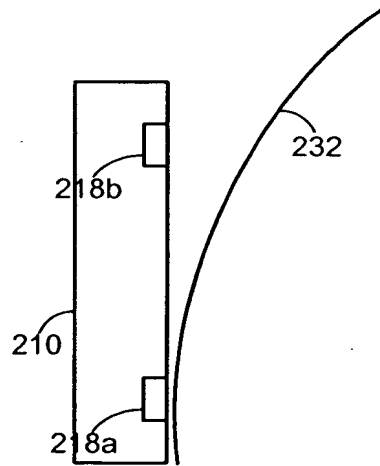


FIG. 16

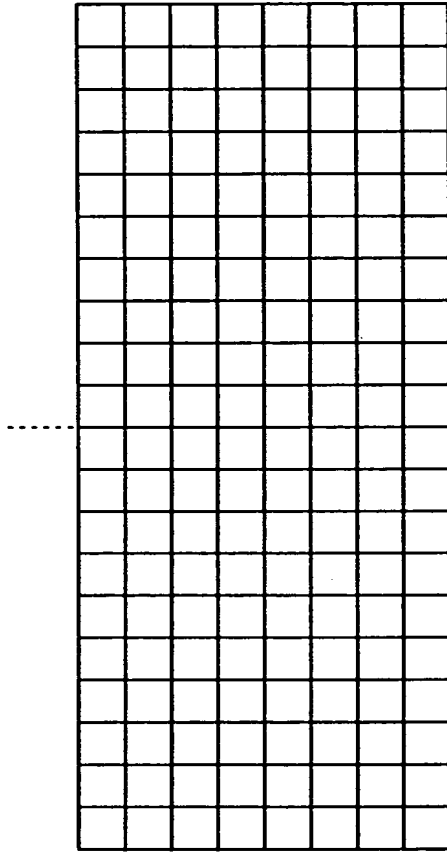


FIG. 17
(Prior Art)

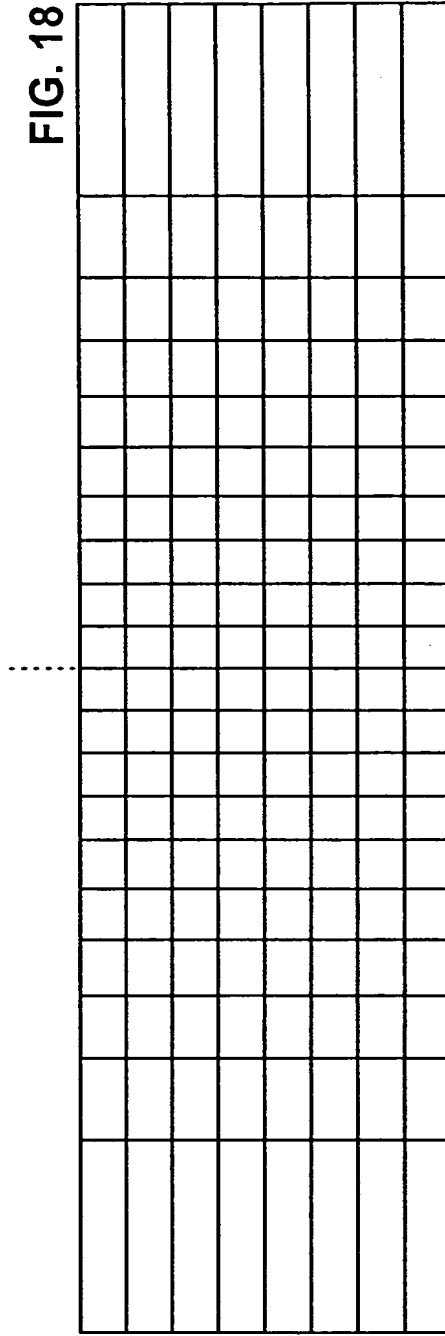


FIG. 18

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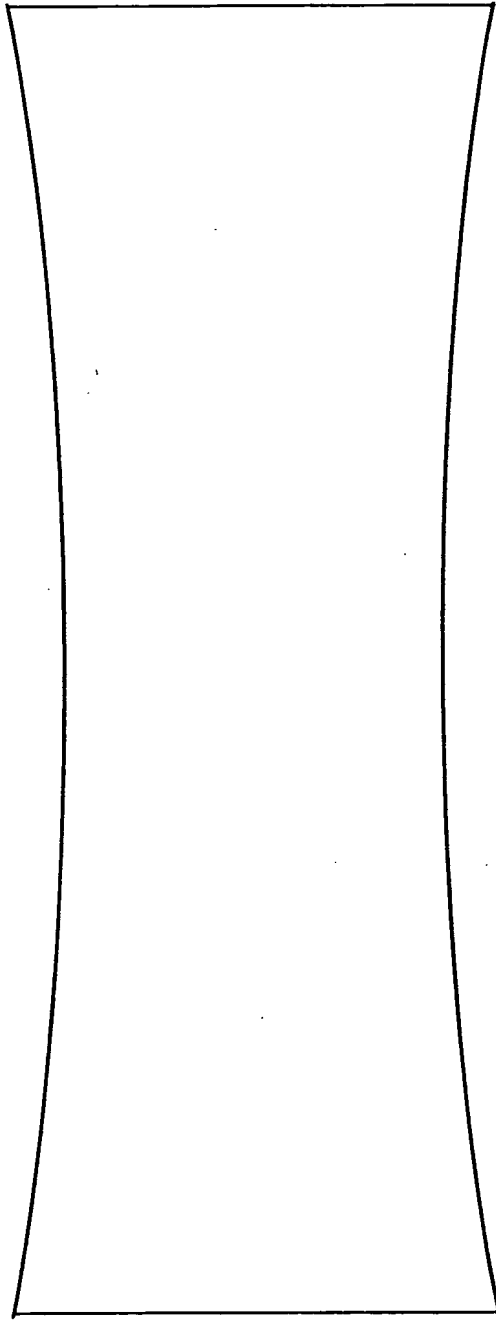


FIG. 19

FIG. 1

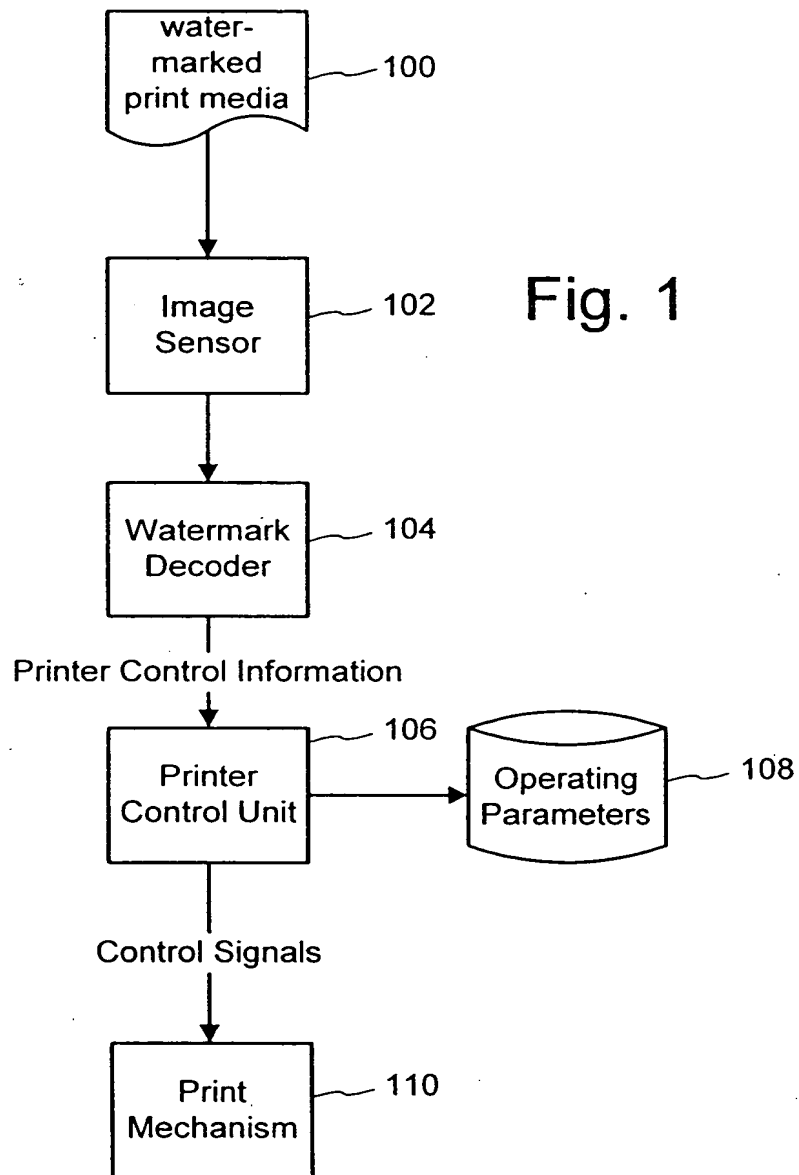


Fig. 1

094496-0360

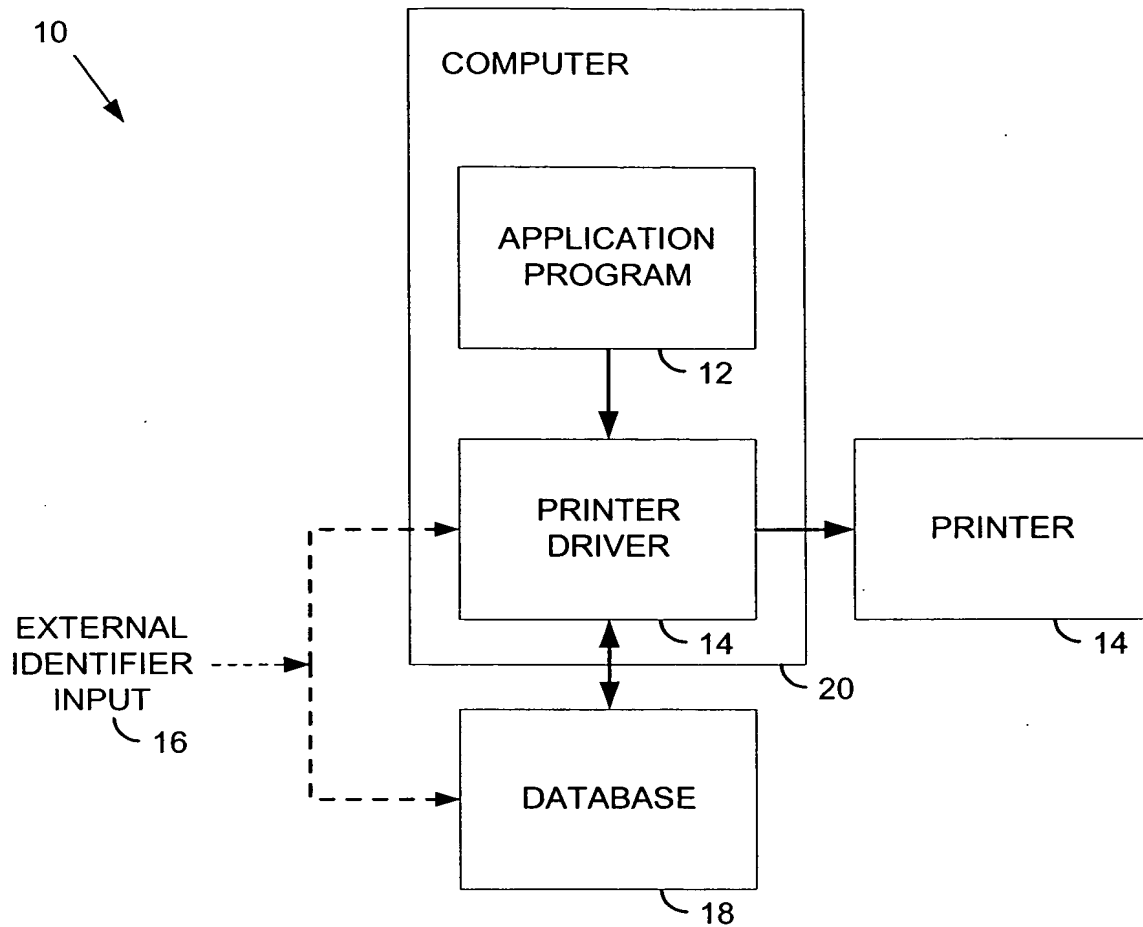


FIG. 1

Customer Support

Find all the information you need to start using Digimarc MediaBridge.

Frequently asked questions about Digimarc MediaBridge:
how it works, what it can do, and how to get the most out of it.

If you have questions or comments about Digimarc MediaBridge, we're here to help. Please direct your emails to Customer Care Group or call 1-877-477-9992 and ask for Digimarc MediaBridge Customer Service.

We recommend the following Intel cameras:

Intel PC Camera Pro Pack
Intel PC Camera Pack

These cameras are approved for Digimarc MediaBridge use:

Intel PC Camera Pro Pack
Intel PC Camera Pack
Philips Vesta Pro (PCVC680K)
Philips Vesta (PCVC675K)
3Com HomeConnect - (Mac users, Click here for camera drivers)

See which cameras work with your operating system.

Fig. 2

IDENTIFIER	TEXT EXCERPT	ASSOCIATED HYPERLINK
186282A	Frequently asked questions about <u>Digimarc MediaBridge</u> :	http://www.digimarc.com/mediabridge/mbco_csfaq.shtml
186282B	<u>Customer Care Group</u>	mailto:helpdesk@digimarc.com
186282C	Intel PC Camera Pro Pack	http://www.intel.com/pccamera/index.htm?iid=prodinfo+video03&
186282D	Intel PC Camera Pack	http://www.intel.com/pccamera/pack.htm?iid=prodinfo+video03&
186282E	<u>Click here</u>	http://www.3com.com/client/pcd/homeconnect/pcdigital/drivers.html#b
186282F	<u>See</u>	http://www.digimarc.com/mediabridge/mbco_cmatrix.shtml

Fig. 3

Figure 1

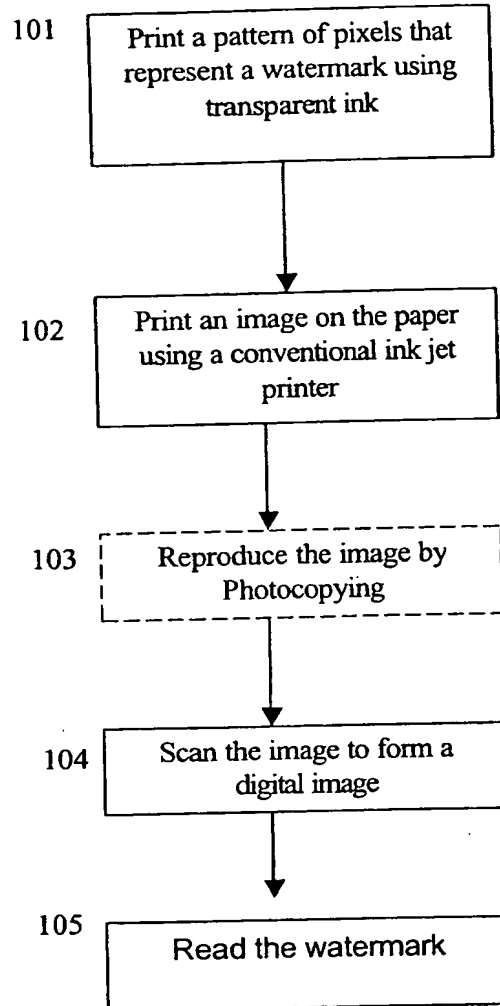
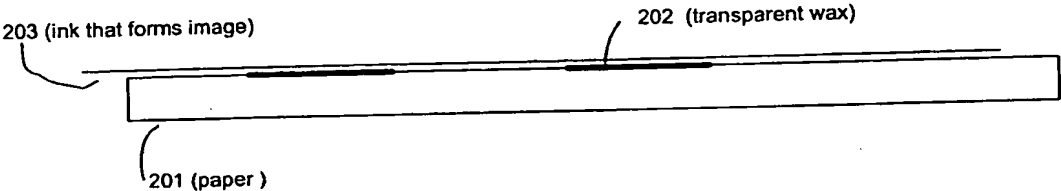
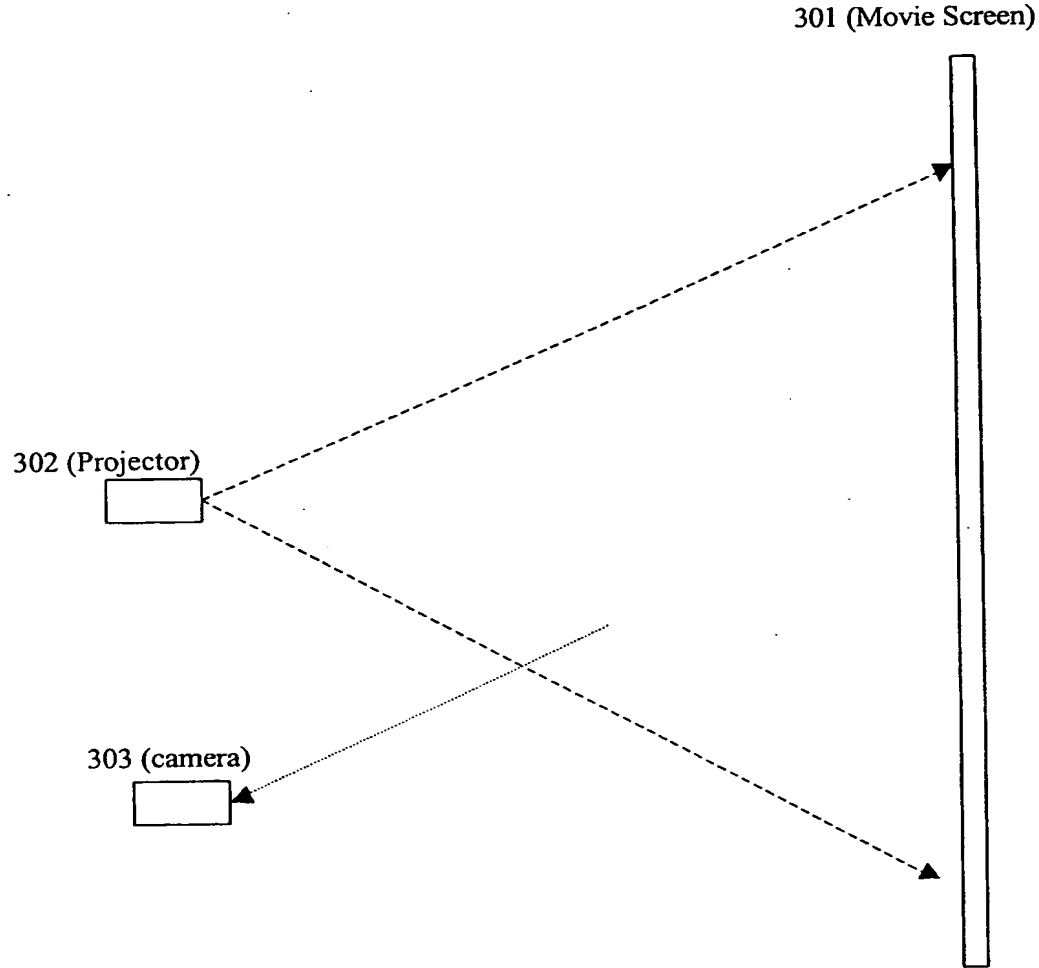


Figure 2



098436-034504

Figure 3



0901366-031504
TOP SECRET

Figure 4

